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VOLUME 85 NUMBER 3

PROCEEDINGS OF THE AMERICAN ACADEMY
OF ARTS AND SCIENCES

Records of the Academy

1956-1957

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Hurd Curtis Willett '52	Cambridge, Mass.

Class I, Section 6 — *Engineering Sciences and Technologies* — 86

Comfort Avery Adams '06	Philadelphia, Pa.
Walter Scott Baird '52	Cambridge, Mass.
Manson Benedict '52	Weston, Mass.
Leo LeRoy Beranek '52	Winchester, Mass.
Michael Berliner Bever '56	Cambridge, Mass.
Edward Lindley Bowles '41	Wellesley, Mass.
Gordon Stanley Brown '50	Cambridge, Mass.
Oliver Ellsworth Buckley '49	Maplewood, N. J.
Vannevar Bush '25	Belmont, Mass.
George Francis Carrier '53	Wayland, Mass.
Arthur Casagrande '49	Cambridge, Mass.
Bruce Chalmers '54	Cambridge, Mass.
John Chipman '48	Winchester, Mass.
Edward Lull Cochrane '49	Cambridge, Mass.
Morris Cohen '50	Cambridge, Mass.
Samuel Cornette Collins '42	Belmont, Mass.
Otto Gustav Colbiornsen Dahl '34	Boston, Mass.
Chester Laurens Dawes '34	Cambridge, Mass.
Jacob Pieter Den Hartog '34	Wellesley Hills, Mass.
Bradley Dewey '43	Cambridge, Mass.
Theodore Harwood Dillon '20	Edgartown, Mass.
Charles Stark Draper '41	Newton, Mass.
Daniel Charles Drucker '55	Providence, R. I.
William Frederick Durand '21	Brooklyn, N. Y.
Melville Eastham '56	Cambridge, Mass.
Harold Eugene Edgerton '56	Belmont, Mass.
Howard Wilson Emmons '46	Sudbury, Mass.
Gordon Maskew Fair '27	Cambridge, Mass.
Antoine Marc Gaudin '56	Cambridge, Mass.
Ivan Alexander Getting '48	Belmont, Mass.
Edwin Richard Gilliland '48	Arlington, Mass.
Sydney Goldstein '56	Cambridge, Mass.
Ernst Adolph Guillemin '55	Cambridge, Mass.
Albert Haertlein '32	Watertown, Mass.

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William Rede Hawthorne '50	Cambridge, England
Harold Locke Hazen '40	Belmont, Mass.
Albert Gordon Hill '53	Cambridge, Mass.
Murray Philip Horwood '36	Cambridge, Mass.
Hoyt Clarke Hottel '48	Winchester, Mass.
John Anthony Hrones '52	Cambridge, Mass.
Jerome Clarke Hunsaker '34	Boston, Mass.
Arthur Thomas Ippen '49	Cambridge, Mass.
Theodore von Kármán '48	Azusa, Calif.
Joseph Kaye '55	Cambridge, Mass.
Joseph Henry Keenan '37	Belmont, Mass.
Robert Victor Kleinschmidt '50	Cambridge, Mass.
William Henry Lawrence '23	Jamaica Plain, Mass.
Philippe Emanuel LeCorbeiller '51	Cambridge, Mass.
John Moyes Lessells '38	Cambridge, Mass.
William Henry McAdams '48	Newton, Mass.
Charles Winters MacGregor '47	Philadelphia, Pa.
Herman Paul Meissner '55	Winchester, Mass.
Harold Somers Mickley '52	Belmont, Mass.
William MacGregor Murray '53	Cambridge, Mass.
John Torrey Norton '49	Cambridge, Mass.
Frederick Law Olmsted '20	Elkton, Md.
Egon Orowan '51	Cambridge, Mass.
Harold Pender '13	Haverford, Pa.
John Alvin Pierce '52	Cambridge, Mass.
William Prager '51	Providence, R. I.
Denis Morrell Robinson '54	Cambridge, Mass.
Warren Max Rohsenow '56	Cambridge, Mass.
Walter Alter Rosenblith '55	Cambridge, Mass.
Reinhold Rüdenberg '41	Belmont, Mass.
Ascher Herman Shapiro '52	Cambridge, Mass.
Milton Clayton Shaw '53	Cambridge, Mass.
Thomas Kilgore Sherwood '48	Wellesley, Mass.
Leslie Earl Simon '56	Niagara Falls, N. Y.
Cyril Stanley Smith '50	Chicago, Ill.
Carl Richard Soderberg '39	Weston, Mass.
Percy LeBaron Spencer '53	Waltham, Mass.
Charles Milton Spofford '14	Boston, Mass.
Horton Guyford Stever '53	Cambridge, Mass.
Charles Fayette Taylor '49	Cambridge, Mass.
Edward Story Taylor '49	Cambridge, Mass.
Karl Terzaghi ['28] '44	Winchester, Mass.
John George Trump '50	Cambridge, Mass.
Herbert Henry Uhlig '52	Cambridge, Mass.
Carl Wilhelm Wagner '54	Cambridge, Mass.
Edward Pearson Warner '23	Montreal, Quebec
Harold Christian Weber '51	Milton, Mass.
Walter Gordon Whitman '48	Concord, Mass.

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Jerome Bert Wiesner '53	Cambridge, Mass.
John Benson Wilbur '45	Cambridge, Mass.
Glenn Carber Williams '54	Cambridge, Mass.
John Wulff '40	Cambridge, Mass.

CLASS II – Biological Sciences – 297

Section 1 – *Biophysics and Biochemistry* – 47

Including pharmacology, etc.

Eric Glendinning Ball '45	Newton Highlands, Mass.
Richard Scott Bear '54	Cambridge, Mass.
Francis Gano Benedict '09	Machiasport, Maine
Konrad Emil Bloch '55	Lexington, Mass.
William T. Bovie '20	Fairfield, Maine
William Clouser Boyd '49	Boston, Mass.
John Machlin Buchanan '53	Cambridge, Mass.
Britton Chance '55	Philadelphia, Pa.
Halvor Niels Christensen '52	Ann Arbor, Mich.
Carl Ferdinand Cori '48	St. Louis, Mo.
Gerty Theresa Cori '53	St. Louis, Mo.
Edward Adelbert Doisy '48	St. Louis, Mo.
Ralph Isadore Dorfman '53	Shrewsbury, Mass.
John Tileston Edsall '37	Cambridge, Mass.
Conrad Arnold Elvehjem '53	Madison, Wis.
Robert Emerson '53	Urbana, Ill.
Lewis Libman Engel '56	Boston, Mass.
Cyrus Hartwell Fiske '34	Lexington, Mass.
Jordi Folch-Pi '56	Waverley, Mass.
Joseph Stewart Fruton '53	New Haven, Conn.
Edmund Newton Harvey '48	Princeton, N. J.
Albert Baird Hastings '36	Brookline, Mass.
Oscar Milton Hechter '56	Worcester, Mass.
Walter Lee Hughes, Jr. '53	Upton, N. Y.
Edward Calvin Kendall '51	Princeton, N. J.
George Wallace Kidder '52	Amherst, Mass.
Barbara Wharton Low '53	New York, N. Y.
Hermann Joseph Muller '42	Bloomington, Ind.
Carl George Niemann '55	Pasadena, Calif.
John Howard Northrop '49	Berkeley, Calif.
Eugene Rabinowitch '53	Urbana, Ill.
Gerhard Schmidt '52	Boston, Mass.
Francis Otto Schmitt '41	Belmont, Mass.
Irwin Whiting Sizer '52	Cambridge, Mass.
Torald Hermann Sollmann '30	Cleveland, Ohio
Arthur Kaskel Solomon '56	Cambridge, Mass.

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Wendell Meredith Stanley '49	Berkeley, Calif.
Fredrick John Stare '52	Boston, Mass.
Leo Szilard '54	New York, N. Y.
Hubert Bradford Vickery '48	New Haven, Conn.
Vincent du Vigneaud '48	New York, N. Y.
George Wald '48	Cambridge, Mass.
David Floyd Waugh '54	Cambridge, Mass.
Dilworth Wayne Wooley '55	New York, N. Y.
Ralph Walter Graystone Wyckoff '50	Bethesda, Md.
Jeffries Wyman '33	Milton, Mass.
Paul Charles Zamecnik '54	Boston, Mass.

Class II, Section 2 — *Botany and Bacteriology* — 49

Edgar Anderson '34	St. Louis, Mo.
Irving Widmer Bailey '15	Cambridge, Mass.
Henry Ives Baldwin '53	Hillsboro, N. H.
Elso Sterrenberg Barghoorn '50	Cambridge, Mass.
Lawrence Rogers Blinks '49	Pacific Grove, Calif.
Edward Sears Castle '48	Cambridge, Mass.
Vernon Irvin Cheadle '56	Davis, Calif.
Jens Christian Clausen '49	Stanford, Calif.
Ralph Erskine Cleland '46	Bloomington, Ind.
Lincoln Constance '50	Berkeley, Calif.
Albert Hewett Coons '54	Boston, Mass.
Bradley Moore Davis '16	Portland, Oreg.
Bernard Ogilvie Dodge '35	New York, N. Y.
Arthur Johnson Eames '41	Ithaca, N. Y.
Ralph Emerson '52	Berkeley, Calif.
Katherine Esau '49	Davis, Calif.
Alexander William Evans '12	New Haven, Conn.
Adriance Sherwood Foster '50	Berkeley, Calif.
Paul Rupert Gast '44	Stow, Mass.
David Rockwell Goddard '54	Philadelphia, Pa.
Richard Hale Goodwin '52	New London, Conn.
James Gordon Horsfall '52	New Haven, Conn.
Richard Alden Howard '53	Weston, Mass.
Ivan Murray Johnston '27	Jamaica Plain, Mass.
Donald Forsha Jones '34	New Haven, Conn.
Ivan Mackenzie Lamb '56	Cambridge, Mass.
Paul Christoph Mangelsdorf '40	Cambridge, Mass.
Winthrop John Vanleuven Osterhout '10	New York, N. Y.
John Robert Raper '55	Lexington, Mass.
Kenneth Bryan Raper '49	Madison, Wis.
Hugh Miller Raup '44	Petersham, Mass.
William Jacob Robbins '48	New York, N. Y.
Reed Clark Rollins '49	Cambridge, Mass.
Ernest Robert Sears '53	Columbia, Mo.

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Paul Bigelow Sears '54	New Haven, Conn.
Edmund Ware Sinnott '34	New Haven, Conn.
Albert Charles Smith '44	Washington, D. C.
Gilbert Morgan Smith '34	Palo Alto, Calif.
Elvin Charles Stakman '23	St. Paul, Minn.
George Ledyard Stebbins, Jr. '52	Davis, Calif.
Frederick Campion Steward '56	Ithaca, N. Y.
William Randolph Taylor '48	Ann Arbor, Mich.
Kenneth Vivian Thimann '38	Cambridge, Mass.
Cornelis Bernardus Van Niel '50	Pacific Grove, Calif.
Frans Verdoorn '53	Waltham, Mass.
Selman Abraham Waksman '49	New Brunswick, N. J.
William Henry Weston, Jr. '22	Winchester, Mass.
Ralph Hartley Wetmore '32	Cambridge, Mass.
Albert Franklin Yeager '56	Durham, N. H.

Class II, Section 3 – *Zoology* – 55
Including physical anthropology, etc.

Henry Bryant Bigelow '11	Concord, Mass.
Charles Henry Blake '35	Lincoln, Mass.
Edgar John Boell '52	New Haven, Conn.
John Lewis Bremer '16	Boston, Mass.
Frank Morton Carpenter '33	Lexington, Mass.
William Ernest Castle '00	Berkeley, Calif.
Min-Chueh Chang '56	Shrewsbury, Mass.
George Leonard Clarke '52	Cambridge, Mass.
Lemuel Roscoe Cleveland '29	Jamaica Plain, Mass.
Manton Copeland '23	Brunswick, Maine
Alden Benjamin Dawson '33	Belmont, Mass.
Edward Wheeler Dempsey '49	St. Louis, Mo.
Samuel Randall Detwiler '25	New York, N. Y.
Theodosius Dobzhansky '53	New York, N. Y.
Leslie Clarence Dunn '50	New York, N. Y.
Tilly Edinger '53	Cambridge, Mass.
Herbert McLean Evans '25	Berkeley, Calif.
Don Wayne Fawcett '55	New York, N. Y.
William King Gregory '31	New York, N. Y.
Donald Redfield Griffin '52	Cambridge, Mass.
Ross Granville Harrison '21	New Haven, Conn.
Caryl Parker Haskins '51	Washington, D. C.
Frederick Lee Hisaw '36	Belmont, Mass.
Leigh Hoadley '29	Cambridge, Mass.
Samuel Jackson Holmes '24	Berkeley, Calif.
William White Howells '55	Cambridge, Mass.
George Evelyn Hutchinson '49	New Haven, Conn.
Walter Landauer '53	Storrs, Conn.
Richard Swann Lull '17	New Haven, Conn.

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Charles Peirson Lyman '56	Canton, Mass.
Ernst Mayr '54	Cambridge, Mass.
Daniel Mazia '54	Berkeley, Calif.
Axel Leonard Melander '27	Riverside, Calif.
Charles William Metz '51	Philadelphia, Pa.
John Spangler Nicholas '49	New Haven, Conn.
Bryan Patterson '56	Cambridge, Mass.
Henry Augustus Pilsbry '21	Philadelphia, Pa.
Harold Henry Plough '50	Amherst, Mass.
Herbert Wilbur Rand '09	Cambridge, Mass.
Alfred Clarence Redfield '23	Woods Hole, Mass.
Oscar Riddle '34	Plant City, Fla.
Alfred Sherwood Romer '37	Cambridge, Mass.
Elizabeth Buckley Shull Russell '56	Bar Harbor, Maine
Alexander Grant Ruthven '25	Ann Arbor, Mich.
Karl Patterson Schmidt '51	Chicago, Ill.
Oscar Emil Schotté '55	Amherst, Mass.
Franz Schrader '53	New York, N. Y.
George Gaylord Simpson '48	New York, N. Y.
George Davis Snell '52	Bar Harbor, Maine
Tracy Morton Sonneborn '49	Bloomington, Ind.
Paul Alfred Weiss '54	New York, N. Y.
John Henry Welsh '45	Cambridge, Mass.
James Walter Wilson '49	Providence, R. I.
Sewall Wright '48	Madison, Wis.
Leland Clifton Wyman '45	Jamaica Plain, Mass.

Class II, Section 4— *Physiology and Experimental Psychology* — 55

Edward Frederick Adolph '54	Rochester, N. Y.
Philip Bard '33	Baltimore, Md.
Frank Ambrose Beach '53	New Haven, Conn.
John Gilbert Beebe-Center '33	Swampscott, Mass.
Edwin Garrigues Boring '24	Cambridge, Mass.
Edward Allen Boyden '24	Seattle, Wash.
Mary Agnes Burniston Brazier '56	Boston, Mass.
Leonard Carmichael '32	Washington, D. C.
Leigh Edward Chadwick '52	Urbana, Ill.
Hallowell Davis '29	St. Louis, Mo.
David Bruce Dill '43	Joppa, Md.
Eugene Floyd DuBois '31	New York, N. Y.
Wallace Osgood Fenn '48	Rochester, N. Y.
John Farquhar Fulton '34	New Haven, Conn.
Herbert Spencer Gasser '48	New York, N. Y.
Ralph Waldo Gerard '55	Ann Arbor, Mich.
Arnold Lucius Gesell '47	New Haven, Conn.
Clarence Henry Graham '37	New York, N. Y.

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Roy Orval Greep '50	Boston, Mass.
Edwin Ray Guthrie '45	Seattle, Wash.
Hudson Hoagland '34	Shrewsbury, Mass.
Roy Graham Hoskins '28	Waban, Mass.
Dwight Joyce Ingle '56	Chicago, Ill.
Heinrich Klüver '54	Chicago, Ill.
Otto Krayer '49	West Newton, Mass.
Eugene Markley Landis '44	Brookline, Mass.
Karl Spencer Lashley '32	Orange Park, Fla.
Joseph Carl Robnett Licklider '53	Cambridge, Mass.
Earl Randall Loew '52	Boston, Mass.
Cyril Norman Hugh Long '49	New Haven, Conn.
Rafael Lorente de No '54	New York, N. Y.
Brenton Reid Lutz '43	Melrose, Mass.
Ross Armstrong McFarland '53	Boston, Mass.
Gardner Murphy '50	Topeka, Kans.
Edwin Broomell Newman '53	Cambridge, Mass.
John Richard Pappenheimer '54	Cambridge, Mass.
Gregory Pincus '39	Worcester, Mass.
Frederick Haven Pratt '27	Wellesley Hills, Mass.
Karl Harry Pribram '56	Hartford, Conn.
David Rapport '32	Boston, Mass.
Alfred Newton Richards '34	Bryn Mawr, Pa.
Curt Paul Richter '56	Baltimore, Md.
Kenneth David Roeder '46	Concord, Mass.
Harold Schlosberg '56	Providence, R. I.
Carl Frederic Schmidt '55	Philadelphia, Pa.
Burrhus Frederic Skinner '52	Cambridge, Mass.
Homer William Smith '49	New York, N. Y.
Stanley Smith Stevens '46	Cambridge, Mass.
Edward Chace Tolman '49	Berkeley, Calif.
Georg von Békésy '54	Cambridge, Mass.
John Broadus Watson '17	Woodbury, Conn.
Heinz Werner '56	Worcester, Mass.
Philip Rodney White '50	Bar Harbor, Maine
Carroll Milton Williams '51	Cambridge, Mass.
Robert Sessions Woodworth '35	New York, N. Y.

Class II, Section 5 — *Medicine* — 91

Including surgery and psychiatry, etc.

Raymond DeLacy Adams '55	Boston, Mass.
Arthur Wilburn Allen '47	Brookline, Mass.
Edwin Bennett Astwood '49	Boston, Mass.
Joseph Charles Aub '32	Belmont, Mass.
Donald Leslie Augustine '52	Boston, Mass.
James Bourne Ayer '29	Milton, Mass.
Franklin Greene Balch ('28) '32	Jamaica Plain, Mass.

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Walter Bauer '41	Boston, Mass.
Henry Knowles Beecher '55	Boston, Mass.
David Lawrence Belding '47	Hingham, Mass.
George Packer Berry '50	Boston, Mass.
Alfred Blalock '55	Baltimore, Md.
George Blumer '31	San Marino, Calif.
Herrman Ludwig Blumgart '49	Boston, Mass.
Arlie Vernon Bock '43	Still River, Mass.
Charles Sidney Burwell '36	Brookline, Mass.
Allan Macy Butler '48	Boston, Mass.
William Bosworth Castle '31	Brookline, Mass.
Edward Delos Churchill '48	Belmont, Mass.
William Irving Clark '42	Worcester, Mass.
David Glendenning Cogan '49	Cambridge, Mass.
Rufus Cole '21	Mount Kisco, N. Y.
Oliver Cope '50	Boston, Mass.
Derek Ernest Denny-Brown '53	Cambridge, Mass.
Lewis Dexter '50	Boston, Mass.
John Englebert Dunphy '56	Boston, Mass.
Geoffrey Edsall '50	Bethesda, Md.
John Franklin Enders '46	Boston, Mass.
Jack Richard Ewalt '53	Boston, Mass.
Sidney Farber '49	Cambridge, Mass.
Dana Lyda Farnsworth '55	Cambridge, Mass.
James Morison Faulkner '45	Cambridge, Mass.
Jacob Fine '53	Cambridge, Mass.
Maxwell Finland '44	Squantum, Mass.
James Lawder Gamble '27	Brookline, Mass.
Joseph Garland '53	Boston, Mass.
Joseph Lincoln Goodale '22	Cambridge, Mass.
Harry Sylvestre Nutting Greene '49	New Haven, Conn.
Alan Gregg '50	Big Sur, Calif.
Robert Edward Gross '49	Boston, Mass.
Thomas Hale Ham ['45] '55	Shaker Heights, Ohio
John Hartwell Harrison '54	Boston, Mass.
Joseph Marchant Hayman, Jr. '56	Boston, Mass.
William Healy '32	Clearwater, Fla.
Philip Showalter Hench '51	Rochester, Minn.
Arthur Tremain Hertig '49	Cambridge, Mass.
Charles Brenton Huggins '49	Chicago, Ill.
Franz Joseph Ingelfinger '54	Boston, Mass.
Henry Jackson, Jr. '34	Tryon, N. C.
Charles Alderson Janeway '46	Weston, Mass.
Chester Morse Jones '56	West Newton, Mass.
Elliott Proctor Joslin '12	Boston, Mass.
Chester Scott Keefer '43	Brookline, Mass.
Hugh Rodman Leavell '54	New Delhi, India
Roger Irving Lee '23	Brookline, Mass.

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Samuel Albert Levine '42	Newton Centre, Mass.
Erich Lindemann '54	Cambridge, Mass.
Edwin Allen Locke '29	Wilton, N. H.
Robert Frederick Loeb '49	New York, N. Y.
William Malamud '44	Boston, Mass.
Rustin McIntosh '54	New York, N. Y.
James Howard Means ['27] '50	Boston, Mass.
Joe Vincent Meigs '56	Boston, Mass.
Karl Friedrich Meyer '35	San Francisco, Calif.
Leroy Matthew Simpson Miner '34	Newtonville, Mass.
Francis Daniels Moore '52	Boston, Mass.
William Lorenzo Moss '28	Athens, Ga.
John Rodman Paul '51	New Haven, Conn.
Samuel Proger '50	Boston, Mass.
Tracy Jackson Putnam '35	Beverly Hills, Calif.
Francis Minot Rackemann '47	Boston, Mass.
John Rock '48	Brookline, Mass.
Joseph Foster Ross '53	Los Angeles, Calif.
Albert Bruce Sabin '55	Cincinnati, Ohio
Arnold Max Seligman '52	Baltimore, Md.
George Cheever Shattuck '33	Brookline, Mass.
Richard Mason Smith '47	Boston, Mass.
John Crayton Snyder '50	Boston, Mass.
Reidar Fauske Sognnaes '56	Boston, Mass.
Harry Caesar Solomon '52	Boston, Mass.
William Herbert Sweet '54	Boston, Mass.
Nathan Bill Talbot '51	Boston, Mass.
Siegfried Josef Thannhauser '46	Brookline, Mass.
George Widmer Thorn '44	Cambridge, Mass.
Ernest Edward Tyzzer '14	Wakefield, Mass.
Frederick Herman Verhoeff '14	Brookline, Mass.
Shields Warren '47	West Newton, Mass.
Joseph Treloar Wearn '27	Cleveland, Ohio
Thomas Huckle Weller '55	Boston, Mass.
James Clarke White '56	Boston, Mass.
Paul Dudley White '40	Belmont, Mass.

CLASS III — Social Arts and Sciences — 284

Section 1 — *Social Relations* — 38

Including human geography and cultural anthropology, clinical and social psychology, etc.

Augusta Fox Bronner (Mrs. William Healy) '43	Clearwater, Fla.
Henry Addington Bruce '31	Hartford, Conn.
Jerome Seymour Bruner '54	Cambridge, Mass.
Edwin Sharp Burdell '45	New York, N. Y.

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Carleton Stevens Coon '43	Devon, Pa.
Carl Rupp Doering '41	Norman, Okla.
John Dollard '51	New Haven, Conn.
Cora Du Bois '55	Cambridge, Mass.
John William Gardner '53	New York, N. Y.
Sheldon Glueck '33	Cambridge, Mass.
Clinton Strong Golden '51	Solebury, Pa.
George Caspar Homans '56	Cambridge, Mass.
Carl Iver Hovland '56	New Haven, Conn.
Francis Keppel '53	Cambridge, Mass.
Clyde Kay Maben Kluckhohn '44	Cambridge, Mass.
Alfred Louis Kroeber '12	Berkeley, Calif.
Paul Felix Lazarsfeld '51	New York, N. Y.
Robert Morison MacIver '34	Palisades, N. Y.
Mark Arthur May '50	New Haven, Conn.
Margaret Mead '48	New York, N. Y.
Robert King Merton '50	New York, N. Y.
Charles Frederick Mosteller '54	Cambridge, Mass.
George Peter Murdock '51	New Haven, Conn.
Henry Alexander Murray, Jr. '35	Boston, Mass.
William Fielding Ogburn '32	Tallahassee, Fla.
Douglas Llewellyn Oliver '53	Cambridge, Mass.
Talcott Parsons '45	Belmont, Mass.
Carroll Cornelius Pratt '33	Princeton, N. J.
David Riesman '55	Chicago, Ill.
Robert Richardson Sears ['51] '56	Stanford, Calif.
Pitirim Alexandrovich Sorokin '31	Winchester, Mass.
Leslie Spier '53	Santa Cruz, Calif.
Herbert Joseph Spinden '26	Carmel, N. Y.
Samuel Andrew Stouffer '50	Cambridge, Mass.
Fletcher Guard Watson '53	Cambridge, Mass.
Robert Winthrop White '56	Concord, Mass.
Frederick Roelker Wulsin '53	Medford, Mass.
Carle Clark Zimmerman '34	Winchester, Mass.

Class III, Section 2 — *Economics* — 50

Morris Albert Adelman '56	Cambridge, Mass.
James Waterhouse Angell '36	New York, N. Y.
Richard Mervin Bissell '48	Washington, D. C.
James Cummings Bonbright '36	New York, N. Y.
Lloyd DeWitt Brace '49	Boston, Mass.
Douglass Vincent Brown '44	Brookline, Mass.
Theodore Henry Brown '46	Cambridge, Mass.
Arthur Frank Burns '55	Washington, D. C.
John Maurice Clark '34	Westport, Conn.
William Lockhart Clayton '48	Houston, Tex.
Arthur Harrison Cole '28	Cambridge, Mass.

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James Frederic Dewhurst '51	Washington, D. C.
Arthur Stone Dewing '32	Cambridge, Mass.
Paul Howard Douglas '50	Washington, D. C.
Fred Rogers Fairchild '36	Hamden, Conn.
Harold Adolph Freeman '56	Cambridge, Mass.
Ralph Evans Freeman '34	Cambridge, Mass.
Edgar Stephenson Furniss '34	New Haven, Conn.
John Kenneth Galbraith '52	Cambridge, Mass.
Carter Goodrich '50	New York, N. Y.
George Nikolaus Halm '55	Winchester, Mass.
Earl Jefferson Hamilton '41	Chicago, Ill.
Seymour Edwin Harris '45	Cambridge, Mass.
Paul Gray Hoffman '52	Pasadena, Calif.
Bishop Carleton Hunt '48	Norwell, Mass.
Carl Kaysen '54	Cambridge, Mass.
Charles Poor Kindleberger '54	Cambridge, Mass.
Frank Hyneman Knight '34	Chicago, Ill.
Simon Smith Kuznets '55	Baltimore, Md.
Ben William Lewis '56	Oberlin, Ohio
Walter Wallace McLaren '32	Pasadena, Calif.
William Rupert Maclaurin '45	Cambridge, Mass.
Leon Carroll Marshall '32	Chevy Chase, Md.
Frederick Cecil Mills '32	New York, N. Y.
Arthur Eli Monroe '34	Cambridge, Mass.
Charles Andrew Myers '54	Cambridge, Mass.
Edwin Griswold Nourse '34	Chevy Chase, Md.
William Andrew Paton '42	Ann Arbor, Mich.
Paul Anthony Samuelson '42	Belmont, Mass.
Benjamin Morris Selekman '43	Cambridge, Mass.
Eli Shapiro '55	Newton Centre, Mass.
Robert Merton Solow '56	Cambridge, Mass.
Philip Taft '49	Providence, R. I.
Willard Long Thorp '55	Amherst, Mass.
Harry Rudolph Tosdal '37	Belmont, Mass.
Donald Skeele Tucker '31	Belmont, Mass.
Jacob Viner '34	Princeton, N. J.
Thomas North Whitehead '38	Cambridge, Mass.
Joseph Henry Willits '36	Armonk, N. Y.
Leo Wolman '34	New York, N. Y.

Class III, Section 3 — *Political Science* — 31

Roger Nash Baldwin '51	New York, N. Y.
Samuel Hutchison Beer '55	Cambridge, Mass.
Ralph Johnson Bunche '51	United Nations, N. Y.
McGeorge Bundy '54	Cambridge, Mass.
Robert Granville Caldwell '40	Fishkill, N. Y.
Robert Kenneth Carr '56	Hanover, N. H.

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Charles Richards Cherington '52	Cambridge, Mass.
Robert Treat Crane '33	Stonington, Conn.
Robert Eugene Cushman '52	Ithaca, N. Y.
Karl Wolfgang Deutsch '53	Palo Alto, Calif.
Thomas Hopkinson Eliot '52	St. Louis, Mo.
Rupert Emerson '55	Cambridge, Mass.
Merle Fainsod '50	Cambridge, Mass.
Carl Joachim Friedrich '44	Concord, Mass.
James William Fulbright '50	Washington, D. C.
John Merriman Gaus '50	Cambridge, Mass.
Leland Matthew Goodrich '49	New York, N. Y.
Edward Pendleton Herring '49	New York, N. Y.
Arthur Norman Holcombe '27	Duxbury, Mass.
Philip Caryl Jessup '32	Norfolk, Conn.
George Frost Kennan '52	Princeton, N. J.
John Fitzgerald Kennedy '55	Washington, D. C.
Valdimer Orland Key, Jr. '55	Cambridge, Mass.
William Bennett Munro '13	Pasadena, Calif.
Norman Judson Padelford '52	Cambridge, Mass.
Margaret Chase Smith '52	Washington, D. C.
Harold Walter Stoke '46	New York, N. Y.
Leonard Dupee White '51	Chicago, Ill.
William Franklin Willoughby '32	Washington, D. C.
Quincy Wright '27	Chicago, Ill.
Henry Aaron Yeomans '33	Cambridge, Mass.

Class III, Section 4 — *Law* — 50

Bailey Aldrich '54	Boston, Mass.
Francis Noyes Balch ('24) '32	Jamaica Plain, Mass.
Stoughton Bell '36	Cambridge, Mass.
Adolf Augustus Berle, Jr. '44	New York, N. Y.
Robert Richardson Bowie '56	Washington, D. C.
Claude Raymond Branch '36	Boston, Mass.
Kingman Brewster, Jr. '56	Cambridge, Mass.
Harvey Hollister Bundy '46	Boston, Mass.
David Farquhar Cavers '55	Cambridge, Mass.
Zechariah Chafee, Jr. '50	Cambridge, Mass.
Charles Allerton Coolidge '48	Belmont, Mass.
John Cobb Cooper '49	Princeton, N. J.
Archibald Cox '55	Cambridge, Mass.
Charles Pelham Curtis '54	Boston, Mass.
Robert Gray Dodge '38	Boston, Mass.
Charles Fairman '56	Cambridge, Mass.
John Wells Farley '49	Boston, Mass.
Lon Louvois Fuller '40	Cambridge, Mass.
Lloyd Kirkham Garrison '54	New York, N. Y.
Herbert Funk Goodrich '39	Philadelphia, Pa.

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Theodore Francis Green '33	Providence, R. I.
Frank Washburn Grinnell '38	Boston, Mass.
Erwin Nathaniel Griswold '41	Belmont, Mass.
John Loomer Hall '39	Boston, Mass.
Learned Hand '33	New York, N. Y.
Albert James Harno '39	Urbana, Ill.
William Henry Hastie '52	Philadelphia, Pa.
Charles Antone Horsky '49	Washington, D. C.
Milton Katz '54	Cambridge, Mass.
William James Kenealy '56	New Orleans, La.
Phillips Ketchum '49	Cambridge, Mass.
James McCauley Landis '38	Rye, N. Y.
Sayre Macneil '32	Pasadena, Calif.
Calvert Magruder '32	Cambridge, Mass.
Thomas Harrison Mahony '50	Boston, Mass.
Harold Medina '51	Foley Square, N. Y.
William DeWitt Mitchell '31	New York, N. Y.
Edmund Morris Morgan '31	Nashville, Tenn.
John Lord O'Brian '47	Washington, D. C.
George Wharton Pepper '01	Philadelphia, Pa.
Roscoe Pound '11	Watertown, Mass.
Stanley Elroy Qua '36	Lowell, Mass.
Eugene Victor Rostow '56	New Haven, Conn.
Austin Wakeman Scott '21	Cambridge, Mass.
Aaron Cecil Snyder '56	San Juan, P. R.
John Varnum Spalding '56	Newton Highlands, Mass.
Arthur Eugene Sutherland '55	Cambridge, Mass.
Raymond Sanger Wilkins '56	Boston, Mass.
Peter Woodbury '53	Manchester, N. H.
Charles Edward Wyzanski, Jr. '43	Cambridge, Mass.

Class III, Section 5 — *Administration and Affairs* — 115

Including diplomacy, etc.

Dean Gooderham Acheson '55	Washington, D. C.
Frederick Baldwin Adams, Jr. '54	Princeton, N. J.
John Adams '53	Boston, Mass.
Thomas Boylston Adams '53	South Lincoln, Mass.
Chester M. Alter '46	Denver, Colo.
George Pierce Baker '47	Boston, Mass.
Chester Irving Barnard '39	New York, N. Y.
Jaime Benítez '56	Río Piedras, P. R.
Howard Landis Bevis '36	Columbus, Ohio
Samuel Bruce Black '49	Boston, Mass.
Charles Eustis Bohlen '56	Washington, D. C.
Chester Bowles '56	Essex, Conn.
Detlev Wulf Bronk '49	New York, N. Y.

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Thomas Dudley Cabot '47	Weston, Mass.
Erwin Dain Canham '48	Newton, Mass.
William Richards Castle '32	Washington, D. C.
William Henry Claflin '47	Belmont, Mass.
Margaret Clapp '52	Wellesley, Mass.
Dean Alexander Clark '54	Boston, Mass.
Paul Foster Clark '49	Boston, Mass.
John Phillips Coolidge '53	Cambridge, Mass.
William Terry Couch '50	New York, N. Y.
Robert Cutler '48	Boston, Mass.
Donald Kirk David '42	New York, N. Y.
Saville Rogers Davis '50	Boston, Mass.
John Sloan Dickey '46	Hanover, N. H.
Ernest Stanley Dodge '53	Salem, Mass.
Charles Dollard '50	North Bennington, Vt.
David Dubinsky '52	New York, N. Y.
David Frank Edwards '46	Cambridge, Mass.
Carl Stephens Ell '48	Newton, Mass.
William Lusk Webster Field ('28) '32	Milton, Mass.
Thomas Knight Finletter '56	New York, N. Y.
Ralph Edward Flanders '39	Washington, D. C.
William Cameron Forbes '27	Norwood, Mass.
Horace Sayford Ford '38	Cambridge, Mass.
Raymond Blaine Fosdick '44	New York, N. Y.
Edward Sanborn French '53	Springfield, Vt.
Horace Rowan Gaither, Jr. '54	New York, N. Y.
Frank Porter Graham '52	New York, N. Y.
Francis Calley Gray '48	Boston, Mass.
Crawford Hallock Greenewalt '51	Wilmington, Del.
Joseph Clark Grew '32	Washington, D. C.
Alfred Whitney Griswold '51	New Haven, Conn.
Jacob George Harrar '52	New York, N. Y.
William Averell Harriman '50	New York, N. Y.
Francis Whiting Hatch '56	Boston, Mass.
Christian Archibald Herter '50	Boston, Mass.
Harold Daniel Hodgkinson '49	Boston, Mass.
Ernest Martin Hopkins '44	Hanover, N. H.
Halford Lancaster Hoskins '33	Washington, D. C.
Ernest Hamlin Huntress '36	Melrose Highlands, Mass.
Howard Bonar Jefferson '56	Worcester, Mass.
Harrison Keller '52	Boston, Mass.
Henry Plimpton Kendall '34	Sharon, Mass.
James Rhyne Killian, Jr. '44	Wellesley Hills, Mass.
Wilfred Stanley Lake '55	Boston, Mass.
Roy Edward Larsen '55	New York, N. Y.
David Eli Lilienthal '48	New York, N. Y.
Walter Lippmann '49	Washington, D. C.
Clarence Cook Little '34	Bar Harbor, Maine

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Milton Edward Lord '47	Boxford, Mass.
Ralph Lowell '47	Westwood, Mass.
Louis Martin Lyons '49	Cambridge, Mass.
Malcolm Perrine McNair '36	Cambridge, Mass.
Daniel L. Marsh '42	Boston, Mass.
Richard Stockton Meriam '34	South Lincoln, Mass.
Keyes DeWitt Metcalf '45	Belmont, Mass.
Henry Allen Moe '45	New York, N. Y.
Ada (Comstock) Notestein '43	New Haven, Conn.
Irving Sands Olds '54	New York, N. Y.
Rosemary Park '56	New London, Conn.
Richard Scott Perkin '55	Norwalk, Conn.
Christopher Hallowell Phillips '52	Washington, D. C.
William Phillips '47	North Beverly, Mass.
Gerard Piel '54	New York, N. Y.
Nathan Marsh Pusey '54	Cambridge, Mass.
William McNear Rand '51	Lincoln, Mass.
Clarence Belden Randall '54	Chicago, Ill.
Helen Rogers Reid '50	New York, N. Y.
Walter Philip Reuther '52	Detroit, Mich.
Fritz Jules Roethlisberger '47	Cambridge, Mass.
James J. Rorimer '56	New York, N. Y.
Arthur Grinnell Rotch '49	Boston, Mass.
Abram Leon Sachar '51	Waltham, Mass.
William Gurdon Saltonstall '53	Exeter, N. H.
Francis Bowes Sayre '32	Washington, D. C.
Erwin Haskell Schell '34	Cambridge, Mass.
Henry Lee Shattuck '35	Boston, Mass.
Henry Southworth Shaw '37	Largo, Fla.
George Nauman Shuster '50	New York, N. Y.
Alfred Pritchard Sloan, Jr. '48	New York, N. Y.
Payson Smith ('28) '32	Peaks Island, Maine
Albert Warren Stearns '33	Billerica, Mass.
Adlai Ewing Stevenson '53	Chicago, Ill.
Earl Place Stevenson '52	Cambridge, Mass.
William Edwards Stevenson '56	Oberlin, Ohio
Robert Burgess Stewart '46	Winchester, Mass.
Arthur Hays Sulzberger '50	New York, N. Y.
Vernon Dale Tate '53	Annapolis, Md.
Stanley Ferdinand Teele '56	Boston, Mass.
Alan Tower Waterman '54	Washington, D. C.
William Webster '50	Wellesley, Mass.
Sumner Welles '47	Oxon Hill, Md.
Nils Yngve Wessell '54	Medford, Mass.
Walter Muir Whitehill '51	Boston, Mass.
Carroll Louis Wilson '49	Seekonk, Mass.
Charles Edward Wilson '44	New York, N. Y.
Howard Eugene Wilson '48	Washington, D. C.

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Thomas James Wilson '50	Cambridge, Mass.
Laurence Leathe Winship '41	South Sudbury, Mass.
Benjamin Fletcher Wright '50	Northampton, Mass.
Henry Merritt Wriston '48	Marstons Mills, Mass.
Benjamin Loring Young ('25) '32	Weston, Mass.
Owen D. Young '39	Van Hornesville, N. Y.

CLASS IV — HUMANITIES — 223

SECTION 1 — *Philosophy and Theology* — 39

William Foxwell Albright '56	Baltimore, Md.
Julius Seelye Bixler '38	Waterville, Maine
Brand Blanshard '46	New Haven, Conn.
Victor Lloyd Butterfield '50	Middletown, Conn.
Rudolph Carnap '48	Los Angeles, Calif.
Harold Claude Case '52	Boston, Mass.
Robert Pierce Casey '36	Cambridge, England
James Bryant Conant '24	Bonn, Germany
Curt John Ducasse '33	Providence, R. I.
Angus Dun '43	Washington, D. C.
Frederick May Eliot '48	Cambridge, Mass.
Louis Finkelstein '54	New York, N. Y.
Theodore Meyer Greene '53	Claremont, Calif.
Paul Oskar Kristeller '55	New York, N. Y.
John LaFarge '50	New York, N. Y.
Clarence Irving Lewis '29	Menlo Park, Calif.
Richard Peter McKeon '42	Chicago, Ill.
Charles William Morris '52	Chicago, Ill.
Lewis Mumford '47	Amenia, N. Y.
Thomas Munro '48	Cleveland, Ohio
Arthur Edward Murphy '48	Seattle, Wash.
Ernest Nagel '54	New York, N. Y.
Norman Burdett Nash '47	Boston, Mass.
Arthur Darby Nock '32	Cambridge, Mass.
Filmer Sears Cuckow Northrop '51	New Haven, Conn.
Charles Edwards Park '17	Boston, Mass.
Stephen Coburn Pepper '56	Berkeley, Calif.
Willard Van Orman Quine '49	Princeton, N. J.
John Herman Randall, Jr. '54	New York, N. Y.
Herbert Wallace Schneider '50	New York, N. Y.
Henry Knox Sherrill '31	New York, N. Y.
Walter Terence Stace '51	Princeton, N. J.
Russell Henry Stafford '29	Hartford, Conn.
Charles Lincoln Taylor '45	Dayton, Ohio
Robert Ulich '41	Wellesley, Mass.
Morton Gabriel White '56	Cambridge, Mass.
Amos Niven Wilder '56	Cambridge, Mass.

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George Huntston Williams '53	Cambridge, Mass.
John Joseph Wright '53	Worcester, Mass.

Class IV, Section 2 — *History and Archaeology* — 71

Warren Ortman Ault '41	Waban, Mass.
Roland Herbert Bainton '54	New Haven, Conn.
Jacques Barzun '54	New York, N. Y.
James Phinney Baxter, 3d '28	Williamstown, Mass.
Herbert Bloch '50	Cambridge, Mass.
Marie Boas '55	Cambridge, Mass.
John Otis Brew '52	Cambridge, Mass.
Clarence Saunders Brigham '46	Worcester, Mass.
Lyman Henry Butterfield '53	Boston, Mass.
Marshall Clagett '56	Madison, Wis.
I. Bernard Cohen '52	Cambridge, Mass.
Charles Woolsey Cole '48	Amherst, Mass.
Merle Eugene Curti '49	Madison, Wis.
George de Santillana '54	Cambridge, Mass.
William Bell Dinsmoor '44	New York, N. Y.
Dows Dunham '54	Boston, Mass.
Francis Dvornik '55	Washington, D. C.
John King Fairbank '54	Cambridge, Mass.
Claude Moore Fuess '38	Chestnut Hill, Mass.
Myron Piper Gilmore '56	Belmont, Mass.
Hetty Goldman '50	Princeton, N. J.
Louis Gottschalk '50	Chicago, Ill.
Mason Hammond '49	Cambridge, Mass.
Oscar Handlin '54	Cambridge, Mass.
George Maxim Anossov Hanfmann '53	Athens, Greece
James Blaine Hedges '49	Providence, R. I.
Hugh O'Neill Hencken '43	Chestnut Hill, Mass.
Bert Hodge Hill '14	Athens, Greece
Henry Russell Hitchcock '53	Northampton, Mass.
Richard Hofstadter '56	New York, N. Y.
Hajo Holborn '41	New Haven, Conn.
Wilbur Kitchener Jordan '47	Cambridge, Mass.
Michael Karpovich '50	Cambridge, Mass.
Alfred Vincent Kidder '53	Cambridge, Mass.
Edward Chase Kirkland '55	Thetford Center, Vt.
William Leonard Langer '53	Cambridge, Mass.
Ambrose Lansing '44	Apache Junction, Ariz.
Kenneth Scott Latourette '49	New Haven, Conn.
Waldo Gifford Leland '32	Newton, Mass.
William E. Lingelbach '41	Philadelphia, Pa.
Elias Avery Lowe '44	Princeton, N. J.
Dumas Malone '36	New York, N. Y.
Benjamin Dean Meritt '35	Princeton, N. J.

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Stewart Mitchell '38	Boston, Mass.
Robert Earle Moody '53	Boston, Mass.
Elting Elmore Morison '54	Cambridge, Mass.
Samuel Eliot Morison '15	Boston, Mass.
Hallam Leonard Movius, Jr. '52	Cambridge, Mass.
Otto Eduard Neugebauer '46	Providence, R. I.
Elliott Perkins '53	Cambridge, Mass.
Robert Henry Pfeiffer '34	Cambridge, Mass.
Philip Phillips '53	Cambridge, Mass.
Conyers Read '50	Villa Nova, Pa.
David Moore Robinson '34	University, Miss.
Arthur Meier Schlesinger, Jr. '55	Cambridge, Mass.
Bernadotte Everly Schmitt '38	Alexandria, Va.
France Vinton Scholes '52	Albuquerque, N. M.
Donald Scott '36	Cambridge, Mass.
Charles Seymour '38	New Haven, Conn.
Clifford Kenyon Shipton '52	Worcester, Mass.
Richard Harrison Shryock '49	Baltimore, Md.
William Stevenson Smith '55	Boston, Mass.
Joseph Reese Strayer '54	Princeton, N. J.
Charles Holt Taylor '32	Cambridge, Mass.
Samuel Edmund Thorne '56	Cambridge Mass.
Warren Stenson Tryon '53	Boston, Mass.
Henry Rouse Viets '39	Brookline, Mass.
Lynn Townsend White, Jr. '56	Oakland, Calif.
Gordon Randolph Willey '52	Cambridge, Mass.
Robert Lee Wolff '54	Cambridge, Mass.
Louis Booker Wright '49	Washington, D. C.

Class IV, Section 3 — *Philology and Criticism* — 53

Including linguistics, literary and art scholarship, etc.

Peter Boodberg '52	Berkeley, Calif.
Millar Burrows '49	New Haven, Conn.
Oscar James Campbell '49	New York, N. Y.
Yuen Ren Chao '48	Berkeley, Calif.
Walter Eugene Clark '20	Vista, Calif.
William George Constable '46	Cambridge, Mass.
Ronald Salmon Crane '32	Chicago, Ill.
Herbert Dieckmann '56	Cambridge, Mass.
Henry Grattan Doyle '44	Washington, D. C.
Franklin Edgerton '20	Laramie, Wyo.
John Peterson Elder '52	Cambridge, Mass.
Serge Elisséeff '40	Cambridge, Mass.
Edward Waldo Forbes '18	Cambridge, Mass.
Jeremiah Denis Mathias Ford '14	Cambridge, Mass.
Lloyd Goodrich '54	New York, N. Y.
Charles Burton Gulick '13	Scarsdale, N. Y.

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Eric Alfred Havelock '53	Cambridge, Mass.
Edith Fishtine Helman '56	Cambridge, Mass.
George Lincoln Hendrickson '18	New Haven, Conn.
William Mills Ivins, Jr. '50	Woodbury, Conn.
Werner Wilhelm Jaeger '40	Watertown, Mass.
Roman Jakobson '50	Cambridge, Mass.
Howard Mumford Jones '38	Cambridge, Mass.
Ralph Hayward Keniston '32	Ann Arbor, Mich.
Hans Kurath '33	Ann Arbor, Mich.
George Sherman Lane '52	Chapel Hill, N. C.
Paul Henry Lang '53	New York, N. Y.
Wolf Leslau '52	Los Angeles, Calif.
Harry Tuchman Levin '50	Cambridge, Mass.
Wilmarth Sheldon Lewis '54	Farmington, Conn.
Ivan Mortimer Linforth '33	Berkeley, Calif.
Albert Bates Lord '56	Cambridge, Mass.
Millard Meiss '54	Cambridge, Mass.
William Mathewson Milliken '54	Cleveland, Ohio
Kenneth Ballard Murdock '31	Boston, Mass.
Marjorie Hope Nicolson '55	New York, N. Y.
William Albert Nitze '28	Los Angeles, Calif.
Erwin Panofsky '48	Princeton, N. J.
Howard Rollin Patch '33	Northampton, Mass.
Simon Rawidowicz '53	Waltham, Mass.
Fred Norris Robinson '11	Cambridge, Mass.
Hyder Edward Rollins '38	Cambridge, Mass.
Jakob Rosenberg '54	Cambridge, Mass.
Benjamin Rowland, Jr. '55	Cambridge, Mass.
Meyer Schapiro '52	New York, N. Y.
Taylor Starck '45	Cambridge, Mass.
Archer Taylor '49	Berkeley, Calif.
Charles Cutler Torrey '11	Chicago, Ill.
William Freeman Twaddell '47	Providence, R. I.
Berthold Louis Ullman '48	Chapel Hill, N. C.
Ernest Hatch Wilkins '30	Newton Centre, Mass.
Edgar Wind '51	Oxford, England
Harry Austryn Wolfson '33	Cambridge, Mass.

Class IV, Section 4 — *Fine Arts and Literature* — 60

Lawrence Bernhardt Anderson '53	Cambridge, Mass.
Alfred Hamilton Barr, Jr. '52	New York, N. Y.
Pietro Belluschi '52	Cambridge, Mass.
Leonard Bernstein '51	New York, N. Y.
Henry Beston '54	Nobleboro, Maine
E. Power Biggs '50	Cambridge, Mass.
Morris Gilbert Bishop '56	Ithaca, N. Y.
William Welles Bosworth '32	Paris, France

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Van Wyck Brooks '49	Bridgewater, Conn.
John Nicholas Brown '50	Providence, R. I.
John Ely Burchard '50	Cambridge, Mass.
Richard Burgin '47	Brookline, Mass.
Samuel Chamberlain '45	Marblehead, Mass.
Chiang Yee '56	New York, N. Y.
John Ciardi '53	New Brunswick, N. J.
Chalmers Dancy Clifton '32	New York, N. Y.
Kenneth John Conant '32	Chevy Chase, Md.
Aaron Copland '51	Ossining, N. Y.
Gardner Cox '55	Cambridge, Mass.
John Roderigo Dos Passos '47	Westmoreland County, Va.
William Emerson '21	Cambridge, Mass.
Esther Forbes '49	Worcester, Mass.
Robert Frost '31	Cambridge, Mass.
Walter Gropius '44	Lincoln, Mass.
Bartlett Harding Hayes, Jr. '48	Andover, Mass.
Roland Hayes '53	Brookline, Mass.
Robert Silliman Hillyer '31	Newark, Del.
Philip Hofer '55	Cambridge, Mass.
Charles Hopkinson '27	Manchester, Mass.
Mark Antony DeWolfe Howe '12	Boston, Mass.
William Alexander Jackson '45	Cambridge, Mass.
Gyorgy Kepes '52	Cambridge, Mass.
Otto Kinkeldey '42	South Orange, N. J.
Oliver LaFarge '53	Santa Fe, N. Mex.
Jack Levine '49	New York, N. Y.
David Thompson Watson McCord '53	Cambridge, Mass.
Paul Manship '31	New York, N. Y.
Ludwig Mies van der Rohe '56	Chicago, Ill.
Agnes Mongan '53	Cambridge, Mass.
Charles Munch '50	Boston, Mass.
Thomas Willoughby Nason '54	Old Lyme, Conn.
Robert Treat Paine, Jr. '53	Cambridge, Mass.
Walter Hamor Piston, Jr. '41	Belmont, Mass.
Lucien Price '49	Boston, Mass.
John Crowe Ransom '53	Gambier, Ohio
Rudolph Ruzicka '53	Boston, Mass.
Eero Saarinen '54	Bloomfield, Mich.
Paul Joseph Sachs '22	Cambridge, Mass.
Charles Henry Sawyer '50	Ann Arbor, Mich.
Ellery Sedgwick '14	Beverly, Mass.
Henry Dwight Sedgwick '19	Dedham, Mass.
José Luis Sert '54	Cambridge, Mass.
Bruce Simonds '48	New Haven, Conn.
George Leslie Stout '54	Worcester, Mass.
Francis Henry Taylor '39	Worcester, Mass.
Randall Thompson '43	Cambridge, Mass.

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Lionel Trilling '52	New York, N. Y.
Edward Augustus Weeks, Jr. '46	Boston, Mass.
Elwyn Brooks White '52	New York, N. Y.
William Wilson Wurster '46	Berkeley, Calif.

FELLOWS EMERITI

Total number, 61

CLASS I — Mathematical and Physical Sciences — 16

Section 1 — *Mathematics* — 1

Frank Lauren Hitchcock '15	Los Angeles, Calif.

Class I, Section 2 — *Physics* — 3

Lyman James Briggs '39	Washington, D. C.
Otto Oldenberg '31	Cambridge, Mass.
Maurice deKay Thompson '12	Boston, Mass.

Class I, Section 3 — *Chemistry* — 3

George Shannon Forbes '15	Cambridge, Mass.
Kenneth Lamartine Mark '32	Boston, Mass.
Ralph Chillingworth Young '41	Arlington, Mass.

Class I, Section 5 — *Earth Sciences* — 3

Reginald Aldworth Daly '09	Cambridge, Mass.
Sterling Price Fergusson '34	Milton, Mass.
Hervey Woodburn Shimer '11	Hingham, Mass.

Class I, Section 6 — *Engineering Sciences and Technologies* — 6

Charles Harold Berry '31	Belmont, Mass.
Emory Leon Chaffee '16	Belmont, Mass.
Hardy Cross '45	New Haven, Conn.
Ralph Restieaux Lawrence '32	Belmont, Mass.
Samuel Cate Prescott '14	Cambridge Mass.
Robert Seaton Williams '19	Belmont, Mass.

CLASS II — Biological Sciences — 10

Section 1 — *Biophysics and Biochemistry* — 2

John Wymond Miller Bunker '28	Belmont, Mass.
Thorne Martin Carpenter '22	Westwood, Mass.

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Class II, Section 2 — *Botany and Bacteriology* — 1

Joseph Horace Faull '29	Cambridge, Mass.

Class II, Section 4 — *Physiology and Experimental Psychology* — 1

Alexander Forbes '15	Milton, Mass.

Class II, Section 5 — *Medicine* — 6

Sanford Burton Hooker '47	Bradford, Vt.
Arthur Hiler Ruggles '34	Providence, R. I.
Frederick Fuller Russell '32	Louisville, Ky.
Merrill Clary Sosman '47	Chestnut Hill, Mass.
Fritz Bradley Talbot '30	Wianno, Mass.
Carl TenBroeck '52	Princeton, N. J.

CLASS III — Social Arts and Sciences — 8

Section 1 — *Social Relations* — 1

Henry Wyman Holmes '32	Cambridge, Mass.

Class III, Section 2 — *Economics* — 3

William James Cunningham '32	Freedom, N. H.
Clyde Orval Ruggles '31	Cambridge, Mass.
Abbott Payson Usher '33	Salem, Mass.

Class III, Section 4 — *Law* — 1

Melvin Maynard Johnson '38	Brookline, Mass.

Class III, Section 5 — *Administration and Affairs* — 3

Bancroft Beatley '49	Belmont, Mass.
Jerome Davis Greene '35	Cambridge, Mass.
Clair Elsmere Turner '36	Arlington, Mass.

CLASS IV — Humanities — 27

Section 1 — *Philosophy and Theology* — 4

William Henry Paine Hatch '30	Exeter, N. H.
William Ernest Hocking '21	Madison, N. H.
Paul Johannes Tillich '50	Cambridge, Mass.
Henry Bradford Washburn '28	Cambridge, Mass.

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Class IV, Section 2 — *History and Archaeology* — 7

Helen Maud Cam '50	Seven Oaks, Kent, England
Gilbert Chinard '49	Princeton, N. J.
Sidney Bradshaw Fay '31	Cambridge, Mass.
George La Piana '22	Auburndale, Mass.
Charles Howard McIlwain '20	Milton, Mass.
Gaetano Salvemini '41	Cambridge, Mass.
Lily Ross Taylor '51	Bryn Mawr, Pa.

Class IV, Section 3 — *Philology and Criticism* — 10

Henry Joel Cadbury '42	Haverford, Pa.
George Raleigh Coffman '48	Newton, Mass.
William Chase Greene '25	Center Sandwich, N. H.
Richmond Laurin Hawkins '38	Cambridge, Mass.
William Guild Howard '17	Cambridge, Mass.
Arthur Stanley Pease '32	Cambridge, Mass.
Heinrich Schneider '53	El Cerrito, Calif.
William Thomson '32	Athol, Mass.
George Benson Weston '33	Cambridge, Mass.
Charles Henry Conrad Wright '22	Cambridge, Mass.

Class IV, Section 4 — *Fine Arts and Literature* — 6

Archibald Thompson Davison '41	Lincoln, Mass.
Edward Burlingame Hill '29	Francestown, N. H.
Joseph Hudnut '38	Dover, Mass.
Chandler Rathfon Post '21	Cambridge, Mass.
Walter Raymond Spalding ['35] '44	Cambridge, Mass.
Martin Wagner '45	Cambridge, Mass.

FOREIGN HONORARY MEMBERS

Total number, 145. Number limited to 250.

CLASS I — Mathematical and Physical Sciences — 41

Section 1 — *Mathematics* — 5

Henri Paul Cartan '50	Paris, France
Arnaud Denjoy '39	Paris, France
Ronald Aylmer Fisher '34	Cambridge, England
Jacques Salomon Hadamard '20	Paris, France
Charles Jean de la Vallée Poussin '15	Uccle-Brussels, Belgium

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Class I, Section 2 — *Physics* — 11

Niels Bohr '45	Copenhagen, Denmark
Sir John Douglas Cockcroft '50	Harwell, England
Paul Adrien Maurice Dirac '50	Cambridge, England
James Franck '29	Chicago, Ill.
Cornelis Jacobus Gorter '52	Leiden, Holland
Abram F. Joffé '29	Leningrad, U. S. S. R.
Nevill Francis Mott '54	Cambridge, England
Wolfgang Ernst Pauli '50	Zürich, Switzerland
Erwin Schrödinger '50	Vienna, Austria
Sir George Paget Thomson '47	Cambridge, England
Max Felix Theodor von Laue '48	Berlin-Dahlem, Germany

Class I, Section 3 — *Chemistry* — 8

Peter Debye '27	Ithaca, N. Y.
Jaroslav Heyrovsky '33	Prague, Czechoslovakia
Sir Cyril Norman Hinshelwood '51	Oxford, England
Friedrich Adolf Paneth '33	Mainz, Germany
Sir Robert Robinson '48	London, England
Leopold Ruzicka '38	Zürich, Switzerland
Theodor Svedberg '48	Uppsala, Sweden
Heinrich Wieland '29	Munich, Germany

Class I, Section 4 — *Astronomy* — 5

Ejnar Hertzsprung '27	Villavej, Denmark
Bertil Lindblad '46	Stockholm, Sweden
Alfred Charles Bernard Lovell '55	Manchester, England
Jan Hendrik Oort '46	Leiden, Holland
Sir Harold Spencer-Jones '45	Tunbridge Wells, Kent, England

Class I, Section 5 — *Earth Sciences* — 7

Sir Edward Victor Appleton '36	Edinburgh, Scotland
Raoul Blanchard '36	Grenoble, France
Sir Edward Crisp Bullard '54	Cambridge, England
Léon William Collet '29	Geneva, Switzerland
Arthur Holmes '34	Edinburgh, Scotland
Sir Harold Jeffreys '54	Cambridge, England
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Class I, Section 6 — *Engineering Sciences and Technologies* — 5

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Fairbank, J. K. *F*, IV:2
Fairchild, F. R. *F*, III:2
Fairman, C. *F*, III:4
Farber, S. *F*, II:5
Farley, J. W. *F*, III:4
Farnsworth, D. L. *F*, II:5
Farnsworth, H. E. *F*, I:2
Faulkner, J. M. *F*, II:5
Faull, J. H. *FE*, II:2
Fauré-Frémiet, E. *FHM*, II:3
Fawcett, D. W. *F*, II:3
Fay, S. B. *FE*, IV:2
Feld, B. T. *F*, I:2
Fenn, W. O. *F*, II:4
Fergusson, S. P. *FE*, I:5
Feshbach, H. *F*, I:2
Field, W. L. W. *F*, III:5
Fieser, L. F. *F*, I:3
Fine, J. *F*, II:5
Finkelstein, L. *F*, IV:1
Finland, M. *F*, II:5
Finletter, T. K. *F*, III:5
Fisher, R. A. *FHM*, I:1
Fisk, J. B. *F*, I:2
Fiske, C. H. *F*, II:1
Flanders, R. E. *F*, III:5
Florin, C. R. *FHM*, II:2
Folch-Pi, J. *F*, II:1
Forbes, A. *FE*, II:4
Forbes, E. *F*, IV:4
Forbes, E. W. *F*, IV:3
Forbes, G. S. *FE*, I:3
Forbes, W. C. *F*, III:5
Ford, H. S. *F*, III:5
Ford, J. D. M. *F*, IV:3
Fosdick, R. B. *F*, III:5
Foster, A. S. *F*, II:2
Franck, J. *FHM* I:2
Frank, N. H. *F*, I:2
Frank, P. *F*, I:2
Franklin, P. *F*, I:1
Freeman, H. A. *F*, III:2
Freeman, R. E. *F*, III:2
French, E. S. *F*, III:5
Friedman, F. L. *F*, I:2
Friedrich, C. J. *F*, III:3
Frisch, D. H. *F*, I:2
Frisch, K. von *FHM*, II:4
Frondel, C. *F*, I:5
Frost, R. *F*, IV:4
Fruton, J. S. *F*, II:1
Fuess, C. M. *F*, IV:2
Fulbright, J. W. *F*, III:3
Fuller, L. L. *F*, III:4
Fulton, J. F. *F*, II:4
Furniss, E. S. *F*, III:2
Furry, W. H. *F*, I:2
Gaither, H. R., Jr. *F*, III:5
Galbraith, J. K. *F*, III:2
Gamble, J. L. *F*, II:5
Gaposchkin, C. P., *see* Payne-Gaposchkin, C.

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Gaudin, A. M. *F*, I:6
Gaus, J. M. *F*, III:3
Geiringer, H. *F*, I:1
Gény, F. *FHM*, III:4
Gerard, R. W. *F*, II:4
Gesell, A. L. *F*, II:4
Getting, I. A. *F*, I:6
Giauque, W. F. *F*, I:3
Gibb, H. A. R. *FHM*, IV:3
Gibson, R. *F*, I:5
Gilliland, E. R. *F*, I:6
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Gilmore, M. P. *F*, IV:2
Gilson, E. *FHM*, IV:1
Gleason, A. M. *F*, I:1
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Goddard, D. R. *F*, II:2
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Goldstein, S. *F*, I:6
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Goodhart, A. L. *FHM*, III:4
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Goodrich, L. *F*, IV:3
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Goodwin, R. H. *F*, II:2
Gorter, C. J. *FHM*, I:2
Gottschalk, L. *F*, IV:2
Graham, C. H. *F*, II:4
Graham, F. P. *F*, III:5
Graton, L. C. *F*, I:5
Gray, F. C. *F*, III:5
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Gregg, A. *F*, II:5
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Kennedy, J. F. *F*, III:3
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Killian, J. R., Jr. *F*, III:5
Kindleberger, C. P. *F*, III:2
King, G. W. *F*, I:3
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Kinkeldey, O. *F*, IV:4
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Klausner, J. *FHM*, IV:3
Kleinschmidt, R. V. *F*, I:6
Kluckhohn, C. K. M. *F*, III:1
Klüver, H. *F*, II:4
Knight, F. H. *F*, III:2
Knopf, A. *F*, I:5
Köhler, W. *FHM*, II:4
Koyré, A. *FHM*, IV:1
Kraus, C. A. *F*, I:3
Krayer, O. *F*, II:4
Kretschmer, P. *FHM*, IV:3
Kristeller, P. O. *F*, IV:1
Kroeber, A. L. *F*, III:1
Kuiper, G. P. *F*, I:4
Kummel, B. *F*, I:5
Kurath, H. *F*, IV:3
Kuznets, S.S. *F*, III:2
LaFarge, J. *F*, IV:1
LaFarge, O. *F*, IV:4
Lake, W. S. *F*, III:5
Lamb, I. M. *F*, II:2
Land, E. H. *F*, I:2
Landauer, W. *F*, II:3
Landis, E. M. *F*, II:4
Landis, J. M. *F*, III:4
Lane, G. S. *F*, IV:3
Lang, P. H. *F*, IV:3
Langer, W. L. *F*, IV:2
Langmuir, I. *F*, I:3
Lansing, A. *F*, IV:2
La Piana, G. *FE*, IV:2
Larsen, E. S., Jr. *F*, I:5
Larsen, R. E. *F*, III:5
Lashley, K. S. *F*, II:4
Latourette, K. S. *F*, IV:2
Laue, *see* von Laue
Lawrence, E. O. *F*, I:2
Lawrence, R. R. *FE*, I:6
Lawrence, W. H. *F*, I:6
Lazarsfeld, P. F. *F*, III:1
Leavell, H. R. *F*, II:5
LeCorbeiller, P. E. *F*, I:6
Le Corbusier, C.-E. *FHM*, IV:4
Lee, R. I. *F*, II:5
Leighton, M. M. *F*, I:5
Leland, W. G. *F*, IV:2
Leslau, W. *F*, IV:3
Lessells, J. M. *F*, I:6
Levin, H. T. *F*, IV:3
Levine, J. *F*, IV:4
Levine, S. A. *F*, II:5
Levinson, N. *F*, I:1
Levorsen, A. I. *F*, I:5
Lewis, B. W. *F*, III:2
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Lilienthal, D. E. *F*, III:5
Lin, Chia-Chiao *F*, I:1
Lindblad, B. *FHM*, I:4
Lindemann, E. *F*, II:5
Linderström-Lang, K. U. *FHM*, II:1
Lindsay, R. B. *F*, I:2
Linforth, I. M. *F*, IV:3
Lingane, J. J. *F*, I:3
Lingelbach, W. E. *F*, IV:2
Lippmann, W. *F*, III:5
Little, C. C. *F*, III:5
Livingston, M. S. *F*, I:2
Locke, E. A. *F*, II:5
Loeb, R. F. *F*, II:5
Loew, E. R. *F*, II:4
Lombardi, L. *FHM*, I:6
Long, C. N. H. *F*, II:4
Longwell, C. R. *F*, I:5
Loomis, L. H. *F*, I:1
Lord, A. B. *F*, IV:3
Lord, M. E. *F*, III:5
Lord, R. C. *F*, I:3
Lorente de No, R. *F*, II:4
Lovell, A. C. B. *FHM*, I:4
Low, B. W. *F*, II:1
Lowe, E. A. *F*, IV:2
Lowell, R. *F*, III:5
Lull, R. S. *F*, II:3
Lundegårdh, H. G. *FHM*, II:1
Lutz, B. R. *F*, II:4
Luyten, W. J. *F*, I:4
Lyman, C. P. *F*, II:3
Lyons, L. M. *F*, III:5
McAdams, W. H. *F*, I:6
McCord, D. T. W. *F*, IV:4
McEwen, G. F. *F*, I:5
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McKinstry, H. E. *F*, I:5
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McMahon, H. O. *F*, I:3
McNair, M. P. *F*, III:5
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Magruder, C. *F*, III:4
Mahony, T. H. *F*, III:4
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Malamud, W. *F*, II:5
Malik, C. H. *FHM*, III:5
Malone, D. *F*, IV:2
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May, M. A. *F*, III:1
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Mc, *see under* Mac
Mead, M. *F*, III:1
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Means, J. H. *F*, II:5
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Onsager, L. *F*, I:3
Oort, J. H. *FHM*, I:4
Oppenheimer, J. R. *F*, I:2
Orowan, E. *F*, I:6
Osterhout, W. J. V. *F*, II:2
Padelford, N. J. *F*, III:3
Paine, R. T., Jr. *F*, IV:4
Palacios, A. L. *FHM*, III:3
Paneth, F. A. *FHM*, I:3
Panofsky, E. *F*, IV:3
Pappenheimer, J. R. *F*, II:4
Park, C. E. *F*, IV:1
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Parodi, L. R. *FHM*, II:2
Parsons, T. *F*, III:1
Patch, H. R. *F*, IV:3
Paton, W. A. *F*, III:2
Patterson, B. *F*, II:3
Paul, J. R. *F*, II:5
Pauli, W. E. *FHM*, I:2
Pauling, L. C. *F*, I:3
Payne-Gaposchkin, C. *F*, I:4
Pease, A. S. *FE*, IV:3
Pender, H. *F*, I:6
Penfield, W. G. *FHM*, II:5
Pepper, G. W. *F*, III:4
Pepper, S. C. *F*, IV:1
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Peters, R. A. *FHM*, II:1
Pfeiffer, R. H. *F*, IV:2
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Plough, H. H. *F*, II:3
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Post, C. R. *FE*, IV:4
Pound, R. *F*, III:4
Pound, R. V. *F*, I:2
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Sachar, A. L. *F*, III:5
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Salem, R. *F*, I:1
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Samuelson, P. A. *F*, III:2
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Scholes, F. V. *F*, IV:2
Scholte, J. H. *FHM*, IV:3
Schotté, O. E. *F*, II:3
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Schumb, W. C. *F*, I:3
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Scott, A. W. *F*, III:4
Scott, D. *F*, IV:2
Sears, E. R. *F*, II:2
Sears, P. B. *F*, II:2
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Sedgwick, E. *F*, IV:4
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Selekman, B. M. *F*, III:2
Seligman, A. M. *F*, II:5
Sert, J. L. *F*, IV:4
Seymour, C. *F*, IV:2
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Shapley, H. *F*, I:4
Shattuck, G. C. *F*, II:5
Shattuck, H. L. *F*, III:5
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Shaw, M. C. *F*, I:6
Sheehan, J. C. *F*, I:3
Sherrill, H. K. *F*, IV:1
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Shipton, C. K. *F*, IV:2
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Shoemaker, D. P. *F*, I:3
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Shryock, R. H. *F*, IV:2
Shuster, G. N. *F*, III:5
Sibelius, J. J. C. *FHM*, IV:4
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Simonds, B. *F*, IV:4
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Sizer, I. W. *F*, II:1
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Slipher, V. M. *F*, I:4
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STATUTES

The American Academy of Arts and Sciences

Adopted November 8, 1911: *amended May* 8, 1912, *January* 8, *and May* 14, 1913, *April* 14, 1915, *April* 12, 1916, *April* 10, 1918, *May* 14, 1919, *February* 8, *April* 12, *and December* 13, 1922, *February* 14, *March* 14, *and October* 10, 1923, *March* 10, 1926, *May* 9, 1928, *April* 8, *and November* 11, 1931, *April* 12, 1933, *February* 14, 1934, *December* 14, 1938, *January* 11, *April* 12, 1939, *May* 8, 1940, *May* 14, 1941, *November* 18, 1942, *and January* 12, 1944, *May* 9, 1945, *November* 14, 1945, *February* 2, 1946, *October* 9, 1946, *October* 8, 1947, *March* 9, 1949, *October* 11, 1950, *March* 14, 1951, *May* 14, 1952, *January* 14, 1953, *November* 10, 1954, *October* 5, 1955, *and January* 11, 1956.

CHAPTER I

The Academy and Its Corporate Seal

Article 1. The American Academy of Arts and Sciences is a body politic and corporate by the same name, forever, established by the Council and House of Representatives in General Court of the Province of Massachusetts Bay as recorded in Chap. 46 of the Acts of 1779.

Article 2. As enacted above, the stated end and design of the institution of the said Academy is to promote and encourage the knowledge of the antiquities of America, and of the natural history of the country, and to determine the uses to which the various natural productions of the country may be applied; to promote and encourage medical discoveries, mathematical disquisitions, philosophical enquiries and experiments, astronomical, meteorological and geographical observations; and improvements in agriculture, arts, manufacture and commerce; and, in fine, to cultivate every art and science which may tend to advance the interest, honor, dignity and happiness of a free, independent and virtuous people.

Article 3. The Corporate Seal of the Academy shall be as here depicted.

See Chap. v, art. 3; chap. vi, art. 1.

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CHAPTER II

Membership and Dues

Article 1. The Academy shall consist of Fellows, elected from the citizens or residents of the United States of America, Fellows Emeriti, and Foreign Honorary Members. They are arranged in four Classes, according to the Arts and Sciences in which they are severally proficient. Each Class shall be divided into the several Sections shown in the following table.

Class I. Mathematical and Physical Sciences
- Section 1. Mathematics
- 2. Physics
- 3. Chemistry
- 4. Astronomy
- 5. Earth Sciences[1]
- 6. Engineering Sciences and Technologies

Class II. Biological Sciences
- Section 1. Biophysics and Biochemistry[2]
- 2. Botany and Bacteriology
- 3. Zoology[3]
- 4. Physiology and Experimental Psychology
- 5. Medicine[4]

Class III. Social Arts and Sciences
- Section 1. Social Relations[5]
- 2. Economics
- 3. Political Science
- 4. Law
- 5. Administration and Affairs[6]

Class IV. Humanities
- Section 1. Philosophy and Theology
- 2. History and Archaeology
- 3. Philology and Criticism[7]
- 4. Fine Arts and Literature[8]

[1] Including geology, physiography, mineralogy, meteorology, and oceanography, etc.
[2] Including pharmacology, etc.
[3] Including physical anthropology, etc.
[4] Including surgery and psychiatry, etc.
[5] Including human geography and cultural anthropology, clinical and social psychology, etc.
[6] Including diplomacy, etc.
[7] Including linguistics, literary and art scholarship, etc.
[8] Including music, architecture, etc.

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ARTICLE 2. The number of Fellows shall not exceed thirteen hundred fifty, of whom not more than two-thirds shall be residents of New England. The number of Fellows in the four Classes, I through IV, shall be approximately in the ratio of 6: 5: 5: 4, respectively.

Any Fellow of the Academy on retiring from his academic or other regular duties may, if he so requests in writing, and with the approval of the Council, be transferred to the status of Fellow Emeritus.

Fellows Emeriti shall be exempt from payment of dues. They may not hold elective office in the Academy, nor serve on Standing Committees, nor vote at meetings, but shall have all the other privileges of Fellowship.

Fellows Emeriti shall be separately classified and shall be outside the statutory limit set on the total number of Fellows and the number in a given Class.

See Chap. ix, art. 3; chap. x, art. 1.

ARTICLE 3. The number of Foreign Honorary Members shall not exceed two hundred and fifty. They shall be chosen from citizens of foreign countries who are eminent for their discoveries or other attainments in any of the Classes above enumerated. There shall be not more than seventy-five in any one Class.

ARTICLE 4. Diplomas signed by the President and by the Vice-President of the Class to which the member belongs, and countersigned by the Secretary, shall be given to Fellows and Foreign Honorary Members.

ARTICLE 5. If any person, after being notified of his election as Fellow or Foreign Honorary Member, shall neglect for six months to accept in writing, his election shall be void.

ARTICLE 6. Every Fellow resident within fifty miles of Boston hereafter elected shall pay an admission fee of ten dollars: if he shall neglect to pay this fee within six months of the date of his election, his election shall become void. Fellows resident more than fifty miles from Boston shall pay no admission fee.

Every Fellow resident within fifty miles of Boston shall pay, unless he enjoys statutory exemption, such Annual Dues, not exceeding fifteen dollars, as shall be voted annually in March by the Academy. These annual dues become payable on the first of June.

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Every Fellow residing more than fifty miles from Boston elected after 1938 shall pay, unless he enjoys statutory exemption, such Annual Dues, not exceeding five dollars, as shall be voted annually in March by the Academy. These annual dues become payable on the first of June.

ARTICLE 7. Exemption from further payment of Annual Dues shall be granted by the Council or its designate to any Fellow who has paid such dues, at either resident or non-resident rate, for forty years; or having attained the age of seventy-five, has paid dues for twenty-five years.

Exemption from further payment of Annual Dues shall be granted forthwith by the Council or its designate to any Fellow who pays into the treasury of the Academy the sum of three hundred dollars for the purpose of commuting subsequent dues, in addition to his previous payments.

ARTICLE 8. Any Fellow, resident or non-resident, who shall neglect to pay his Annual Dues for six months after they are due and who ignores notification by the Treasurer of the requirements of this Article of the Statutes shall cease to be a Fellow.

ARTICLE 9. Upon petition of any Fellow, the Council may by a majority vote suspend the application of any penalties hereinabove prescribed in this chapter.

ARTICLE 10. Only Fellows resident within fifty miles of Boston may hold elective office in the Academy or serve on Standing Committees as specified in Chapter XI.

ARTICLE 11. If, in the opinion of a majority of the entire Council, any Fellow or Foreign Honorary Member shall have rendered himself unworthy of a place in the Academy, the Council shall recommend to the Academy the termination of his membership; and if three-fourths of the Fellows present out of a total attendance of not less than fifty at a Stated Meeting, or at a Special Meeting called for the purpose, shall adopt this recommendation, his name shall be stricken from the Roll.

See Chap. iii; chap. vi, art. 5 and 6; chap. x, art. 1.

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CHAPTER III

Nomination and Election of Fellows and Foreign Honorary Members

The procedure for nomination and election of Fellows and Foreign Honorary Members shall be as follows:

Article 1. Nominations may be made at any time by any two Fellows in writing on forms to be provided by the Secretary and shall be referred by him to the Committee on Membership.

The Committee on Membership shall meet following the stated meetings of the Academy in May, November, February and March, and at such other times as it may determine, to appraise nominations received by it from the Fellows, to analyze the membership structure of the Academy, to originate further nominations, and to submit for election those receiving favorable vote of two-thirds of the committee members present at any meeting attended by not less than seven of its members.

Immediately following its meeting in February, the Committee shall cause to be sent to every Fellow a list of nominees, together with names of nominators, for appraisal, expression of preference, or other comment by the Fellows.

The Committee, at its March meeting, shall review all nominations, together with comments by the Fellows thereon, and shall compile a list of approved candidates for the annual election of Fellows and Foreign Honorary Members. It shall present this list together with data pertaining thereto to the Council not later than at the Stated Meeting of the Council in April.

The Council, by vote of the majority of members present at a meeting, shall make final nominations from the list of approved persons recommended by the Committee on Membership for election by the Fellows.

Article 2. Election of Fellows and Foreign Honorary Members shall be made by a majority of the Fellows present at the Annual Meeting in May, from the nominations presented at that meeting by the Council.

Article 3. Each Fellow-elect or Foreign Honorary Member-elect shall immediately following his election be notified thereof in writing by the Secretary.

See Chap. ii; chap. vi, art. 5; chap. x, art. 1; chap. xi, art. 1 (ii).

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CHAPTER IV

Officers

Article 1. The Officers of the Academy shall be a President (who shall be Chairman of the Council), four Vice-Presidents (one from each Class), a Secretary (who shall be Secretary of the Council), a Treasurer, a Librarian, and an Editor, all of whom shall be elected by ballot at the Annual Meeting, and shall take office at the close of that meeting, and shall hold their respective offices for one year, and until others are duly chosen and take office.

There shall be also twenty Councillors, one for each Section of each Class; at each Annual Meeting five Councillors shall be elected by ballot to serve for a term of four years, and they shall take office at the close of that meeting and shall hold office until others are duly chosen and take office. The same Fellow shall not be eligible for two successive terms.

The Councillors, with the officers previously named, and the Chairmen of the Standing Committees, *ex officiis*, shall constitute the Council.

See Chap. xi, art. 1.

Article 2. If any officer be unable, through death, absence, or disability, to fulfill the duties of his office, or if he shall resign, or become a non-resident member, his place may be filled by the Council in its discretion for any part or the whole of the unexpired term.

Article 3. The Nominating Committee, as constituted under Chapter XI, Article 1 (xi), shall prepare a list of nominees for the several offices to be filled, and for the Standing Committees, and file it with the Secretary not later than eight weeks before the Annual Meeting.

The Secretary shall transmit to the Fellows, previous to the stated meeting in April, the report of the Nominating Committee.

Article 4. Independent nominations for any office, if signed by at least twenty Fellows having the right to vote, and received by the Secretary not less than twenty days before the Annual Meeting, shall be included in the election procedure.

Article 5. The Secretary shall prepare for use in voting at the Annual Meeting a ballot containing the names of all persons duly nominated for office.

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CHAPTER V

The President

Article 1. The President, or in his absence a Vice-President, shall preside at meetings of the Academy.

See Chap. vi, art. 3.

Article 2. The President shall be the chief executive officer of the Academy. He shall present to the Council for its consideration all matters pertinent to the interests of the Academy and to the discharge of its obligations to the community or to the advancement of scholarship.

Article 3. Any deed or writing to which the Corporate Seal is to be affixed, except leases of real estate, shall be executed in the name of the Academy by the President or in the event of his death, absence, or inability, by one of the Vice-Presidents, when thereto duly authorized by the Council.

Article 4. In case of incapacity of the President, the Council shall designate a Vice-President to carry out the duties of the office.

See Chap. ii, art. 4; chap. iv, art. 1, 3; chap. vi, art. 3; chap. viii, art. 4; chap. x, art. 3; chap. xi, art. 1 (ii), (iii), (x); chap. xii, art. 1.

CHAPTER VI

The Secretary

Article 1. The Secretary shall provide for the custody of the Charter, Corporate Seal, Statute Book, Journals of the Academy, and other Archives.

Article 2. He shall be responsible for the correspondence of the Academy and of the Council. At each meeting of the Council he shall present any important communications addressed to the Academy which have been received since the previous meeting, and at the next meeting of the Academy he shall present such matters as the Council may determine.

Article 3. He shall attend the meetings of the Academy and the Council and shall arrange for the keeping of a faithful record of the

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attendance and of the proceedings. In the absence of the President and of all the Vice-Presidents, he shall call the meeting to order and preside until a chairman is chosen by majority vote of the Fellows present.

ARTICLE 4. He shall apprise officers and committees of their election or appointment, and inform the Treasurer and the Chairman of each Standing Committee of appropriations of money voted by the Academy.

ARTICLE 5. He shall notify all persons who may be elected Fellows or Foreign Honorary Members, send to each a copy of the Statutes, and on their acceptance issue the proper Diploma. After all elections, he shall insert in the Records the names of the Fellows by whom the successful nominees were proposed.

ARTICLE 6. He shall keep and cause to be printed annually a list of the Fellows and Foreign Honorary Members, arranged in their several Classes and Sections, and a list of Fellows and Foreign Honorary Members of whose deaths he has been informed.

ARTICLE 7. He shall arrange for the preservation of records of the death of Fellows and Foreign Honorary Members and biographical notices published on the occasion of their death, or at other times.

See Chap. i, art. 2; chap. ii, art. 4; chap. iii; chap. iv, art. 1, 3, 4, 5; chap. ix, art. 3; chap. xi, art. 1 (iii), 2; chap. xii, art. 1, 3.

CHAPTER VII

THE TREASURER AND THE TREASURY

ARTICLE 1. The Treasurer shall collect all money due or payable to the Academy and all gifts or bequests made to it. He shall pay all bills due and payable by the Academy when approved by the proper officers. He shall sign all leases of real estate in the name of the Academy. He shall be the official custodian of all bonds, stocks and other securities and, with the written approval of any one member of the Committee on Finance, he shall have full authority to sell and transfer, invest and reinvest from time to time in such manner and upon such terms as shall to him seem best, the whole or any part of the personal property of the said Academy.

He shall keep a faithful account of all receipts and expenditures, submit his accounts annually to the Auditing Committee, and render

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them at the expiration of his term of office, or whenever required to do so by the Academy or the Council.

He shall keep separate accounts of the income of the Rumford Fund, and of all other special Funds, and of the appropriation thereof, and render them annually.

He shall fund all payments received in commutation of Dues, their income only to be applied toward current expenditures.

His accounts shall always be open to the inspection of the Council.

ARTICLE 2. He shall report annually to the Council at its March meeting on the expected income of the various Funds and from all other sources, together with appropriations needed by Officers and Standing Committees for the ensuing fiscal year. He shall also report the names of all Fellows who may be then delinquent in the payment of their Annual Dues.

ARTICLE 3. He shall give such security for the trust reposed in him as the Academy may require.

ARTICLE 4. With the approval of a majority of the Committee on Finance, he may appoint an Assistant Treasurer to perform his duties, for whose acts, as such assistant, he shall be responsible; or, with like approval and responsibility, he may employ any Trust Company doing business in Boston as his agent for the same purpose, the compensation of such Assistant Treasurer or agent to be fixed by the Committee on Finance and paid from the Funds of the Academy.

ARTICLE 5. At the Annual Meeting he shall report in print all his official doings for the preceding year, stating the amount and condition of all the property of the Academy entrusted to him, and the character of the investments.

ARTICLE 6. The Financial Year of the Academy shall begin with the first day of April.

ARTICLE 7. No person or committee shall incur any debt or liability in the name of the Academy, unless in accordance with a previous vote and appropriation therefor by the Academy or the Council, or sell or otherwise dispose of any property of the Academy, except cash or invested funds, without previous consent and approval of the Council.

See Chap. ii, art. 2, 6, 7, 8; chap. iv, art. 1; chap. vi, art. 4; chap. ix, art. 6; chap. xi, art. 1 (i), (iv), (v), art. 2; chap. xii, art. 1.

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CHAPTER VIII

The Librarian and the Library

Article 1. The Librarian shall have charge of the Library and keep a correct catalog of it.

Article 2. The Librarian shall have authority to expend such sums as may be appropriated by the Academy for the purchase, repair, or maintenance of books, periodicals, etc., and for defraying other necessary expenses connected with the Library.

Article 3. The Librarian shall have the custody of the publications of the Academy. With the advice and consent of the President, he may effect exchanges with other associations.

See Chap. iv, art. 1; chap. xi.

CHAPTER IX

The Editor and the Publications

Article 1. The Editor shall have charge of the conduct through the press of the publications of the Academy. Together with the Committee on Publication he shall determine the contents of the publications.

Article 2. The publications of the Academy shall be as follows:
(i) The Proceedings shall be published at least semi-annually.
(ii) Memoirs, monographs and volumes of collected papers may be published from time to time.
(iii) The Bulletin of the American Academy of Arts and Sciences shall be published preceding the stated meetings, containing notices of such meetings, communications from the Council or Officers, and such other matter as may be of timely interest to the Fellows.

Article 3. A copy of the Proceedings and of the Bulletin shall be mailed to each Fellow, Fellow Emeritus, and Foreign Honorary Member.

Article 4. Fellows who pay Annual Dues or who are exempted from further payment thereof under Chapter II, Article 7, Fellows Emeriti, and Foreign Honorary Members shall be entitled, upon written request to the Librarian, to receive gratis one copy of each number of Proceedings, Memoirs, and Bulletin which have been issued after their election and are available.

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ARTICLE 5. Not more than two hundred extra copies of each paper printed in the Proceedings shall be placed at the disposal of the author without charge.

ARTICLE 6. The Editor shall have the authority to expend for printing and other expenses of publication such sums as may be appropriated by the Academy for such purposes; also such sums as may be made available to him by the Council from any source for particular publications under the sponsorship of the Academy.

See Chap. iv, art. 1; chap. xi, art. 1 (vi).

CHAPTER X

THE COUNCIL

ARTICLE 1. The Council shall exercise general supervision over all affairs of the Academy not explicitly reserved to the Academy as a whole.

It shall consider all nominations of Fellows and Foreign Honorary Members duly sent to it by the Committee on Membership, and act upon them in accordance with the provisions of Chapter III.

With the consent of the person concerned it shall have power to transfer in respect to status, Class, or Section.

ARTICLE 2. Nine members shall constitute a quorum.

ARTICLE 3. It shall act upon all resignations and forfeitures of membership in the Academy.

It shall appoint all agents and subordinates not otherwise provided for by the Statutes, prescribe their duties, and fix their compensation. They shall hold their respective positions during the pleasure of the Council.

It shall fill any vacancy caused by death, resignation or incapacity of any officer.

ARTICLE 4. It may authorize the appointment for terms not exceeding one year, and prescribe the functions of such committees of its number or of the Fellows of the Academy, as it may deem expedient, to facilitate the administration of the affairs of the Academy or to promote its interests.

ARTICLE 5. At the stated March meeting of the Academy it shall recommend for action at that meeting the appropriations which in its

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opinion should be made for the ensuing fiscal year, and the Annual Dues therefor.

It may recommend special appropriations at any Stated Meeting of the Academy, or at a Special Meeting, in the call for which such business shall have been included.

See Chap. ii, art. 2, 10; chap. iii, art. 1, 2; chap. iv, art. 1, 2; chap. v, art. 2, 3; chap. vi, art. 2, 3; chap. vii, art. 1, 2, 7; chap. ix, art. 6; chap. xi, art. 1; chap. xii, art. 1, 4, 6.

CHAPTER XI

Standing Committees

Article 1. At each Annual Meeting, the following Standing Committees shall be perpetuated by election by ballot by the Fellows of the appropriate number of nominees to maintain the strength of each committee as provided hereinbelow. A Fellow may not be nominated for successive terms without the specific consent of the Council.

(i) *The House Committee* shall consist of three Fellows, one of whom shall be elected at each Annual Meeting to serve for a term of three years. One member of this committee shall in such an election be designated by the electors to serve as Chairman of the House Committee for the duration of the term for which he has been elected as a member of the committee. It shall have general charge of maintaining the House of the Academy in suitable condition for the uses thereof approved by the Council.

The Chairman of the House Committee or his designate shall approve in writing all expenditures within its authorized budget or special appropriations for repairs, services, supplies, or operation of the House, including compensation of House employees.

The House Committee, in consultation with the Treasurer, shall determine the equitable proportion of expense to be assessed for the use of the facilities of the House which have been approved by the Council for other than Academy activities.

(ii) *The Committee on Membership* shall consist of the President, *ex officio*, as Chairman, the four Vice-Presidents, *ex officiis*, and eight other Fellows, one of whom from each of the four Classes shall be elected annually to serve for a term of two years. It shall have the duties designated to it in Chapter III.

(iii) *The Committee on Meetings* shall consist of the President as

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Chairman, the Secretary, who shall act as secretary of the committee, and the four Vice-Presidents, *ex officiis*, together with four other Fellows, one from each Class, two of whom shall be elected annually to serve for a term of two years. It shall arrange for meetings of the Academy.

(iv) *The Committee on Finance* shall consist of the Treasurer as Chairman, *ex officio*, and four other Fellows, two of whom shall be elected annually to serve for a term of two years. It shall have general supervision of the investments of the Academy.

(v) *The Auditing Committee* shall consist of two Fellows, one of whom shall be elected annually to serve for a term of two years. It shall audit the accounts of the Treasurer with power to employ an expert and to approve the payment of his charges.

(vi) *The Committee on Publication* shall consist of the Editor as Chairman, *ex officio*, and four other Fellows, one from each Class, two of whom shall be elected annually to serve for a term of two years. It shall have the authority and the responsibility of determining the contents and of effecting the printing of the publications of the Academy as set forth in Chapter IX.

(vii) *The Permanent Science Fund Committee* shall consist of seven Fellows of whom there shall be elected at Annual Meetings in each triennium, respectively, two, two, and three members, each to serve for a term of three years. One member of this Committee shall, in such an election, be designated by the electors to serve as Chairman for the duration of the term for which he has been elected as a member of the Committee. It shall review all applications for grants addressed to it and shall from time to time recommend to the Council appropriate disbursements from the income received by the Academy from the Trustee of the Permanent Science Fund, for carrying out the purposes set forth in the Agreement and Declaration of Trust which governs the use of this income.

(viii) *The Rumford Committee* shall consist of seven Fellows of whom there shall be elected at Annual Meetings in each triennium, respectively, two, two, and three members, each to serve for a term of three years. One member of this Committee shall, in such an election, be designated by the electors to serve as Chairman for the duration of the term for which he has been elected as a member of the Committee. It shall invite applications for pecuniary assistance in support of researches in the general fields of heat and light broadly interpreted, and shall from time to time recommend to the Council disbursements in

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support thereof from the income from the Rumford Fund. Biennially it shall recommend to the Council a candidate for the reception of the Rumford Medal to be awarded in accordance with the Rumford trust, and shall in general see to the proper execution of this trust.

(ix) *The C. M. Warren Committee* shall consist of seven Fellows of whom there shall be elected at Annual Meetings in each triennium, respectively, two, two, and three members, each to serve for a period of three years. One member of this Committee shall, in such an election, be designated by the electors to serve as Chairman for the duration of the term for which he has been elected as a member of the Committee. It shall invite applications for pecuniary assistance from any person wishing to engage in research in any branch of chemistry, and shall recommend to the Council such applications as seem worthy of aid and such other disbursements from the income of the C. M. Warren Fund as it deems appropriate to the advancement of research in chemistry.

(x) *The Amory Prize Committee* shall consist of seven Fellows, each of whom shall serve from the time of his election until his successor is elected. Immediately after the Annual Meeting in 1950 and at least every seventh year thereafter it shall at the call of its senior officer, meet and elect from its own members, a chairman and a secretary, each to serve for seven years or until his successor is elected in a similar manner at an interim meeting at which at least five members shall cast their votes. For each septennium beginning with that which was concluded on November 10, 1933, it shall recommend to the Council for its approval a recipient or recipients of the Amory Prize and a gold medal or other token of honor and merit to be conferred upon each by the President and Fellows of the Academy in recognition of an invention or other contribution in the medical field specified in and according to the terms of the bequest of Francis Amory.

(xi) *The Nominating Committee* shall consist of twelve Fellows, three from each Class, having the right to vote. The members of the first Nominating Committee constituted hereunder shall be appointed within each Class by the President for terms of one, two and three years. The President shall also appoint one of the Committee to act as Chairman. Thereafter, as vacancies in the membership of the Committee occur, four members, one from each Class, shall be elected annually to serve for a term of three years, one member at such election being designated to act as Chairman for the duration of the term for which he has been elected as a member of the Committee. Nomi-

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nations for such elections, within each Class, shall be by a vote of the Committee.

ARTICLE 2. Each Standing Committee shall confine expenditures and its recommendations of expenditures to such sums in each fiscal year as shall have been notified to its Chairman by the Secretary of the Academy as appropriations voted by the Academy, or by the Treasurer as income available for its purposes.

ARTICLE 3. Each Standing Committee shall report to the Academy at the Annual Meeting its acts of the previous year.

See Chap. iii; chap. iv, art. 1, 3; chap. vi, art. 4; chap. vii, art. 1, 2, 4; chap. ix, art. 1, 2.

CHAPTER XII

MEETINGS, COMMUNICATIONS, AND AMENDMENTS

ARTICLE 1. There shall be annually eight Stated Meetings of the Academy, namely, on the second Wednesday of October, November, December, January, February, March, April, and May. Only at these meetings, or at adjournments thereof regularly notified, or at Special Meetings called for the purpose, shall appropriations of money be made or amendments of the Statutes be effected.

The Stated Meeting in May shall be the Annual Meeting of the Corporation.

Special Meetings shall be called by the Secretary at the request of the President, of the Council, or of ten Fellows having the right to vote; and notifications thereof shall state the purpose for which the meeting is called.

The Council shall have authority, as occasion may demand, to arrange additional meetings and to cancel any of the statutory meetings, except that meetings for transacting business shall be held as required by the Statutes.

ARTICLE 2. Except as otherwise provided, twenty-five Fellows having the right to vote shall constitute a quorum for the transaction of business at Stated or Special Meetings. Eighteen Fellows shall be sufficient to constitute a meeting for literary or scientific communications and discussions.

ARTICLE 3. Upon the request of the presiding officer or the Secretary, any motion or resolution offered at any meeting shall be submitted in writing.

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ARTICLE 4. Fellows may introduce guests at any of the literary or scientific meetings of the Academy.

ARTICLE 5. All amendments to the Statutes, whether proposed by Fellows or by the Council, shall be considered by the Council and reported with recommendations for action to the Academy. At a subsequent Stated Meeting, or at a Special Meeting called for the purpose, the notice for which in either case shall state this proposed amendment, the Academy shall act upon the amendment. Two-thirds of the Fellows present, in a meeting of not less than forty Fellows, must vote in the affirmative to enact the amendment.

See Chap. ii, art. 6, 10; chap. iii, art. 1, 2; chap. iv, art. 1, 3, 4, 5; chap. v, art. 1; chap. vi, art. 2, 3; chap. vii, art. 2, 5; chap. ix, art. 2; chap. x, art. 5; chap. xi, art. 1, 3.

CHARTER OF INCORPORATION

An Act to incorporate and establish a Society for the cultivation and promotion of Arts and Sciences. Granted May 4, 1780, by an Act of the Legislature of Massachusetts, and amended by the Acts of 1910, 1911, 1931, and 1947.

As the Arts and Sciences are the foundation and support of agriculture, manufactures, and commerce; as they are necessary to the wealth, peace, independence, and happiness of a people; as they essentially promote the honor and dignity of the government which patronizes them; and as they are most effectually cultivated and diffused through a State by the forming and incorporating of men of genius and learning into public societies for these beneficial purposes.

Be it therefore enacted by the Council and House of Representatives in General Court assembled and by the authority of the same, that [sixty-two persons][1] be, and they hereby are formed into, constituted, and made a body politic and corporate, by the name of THE AMERICAN ACADEMY OF ARTS AND SCIENCES, and that they, and their successors, and such other persons as shall be elected in the manner hereafter mentioned, shall be and continue a body politic and corporate, by the same name forever.

And be it further enacted by the authority aforesaid, that the Fellows of the said Academy may from time to time elect a President, one or more Vice-Presidents, one or more Secretaries, and such other

[1] For the names of the Fellows incorporated, see Memoirs, Vol. XI, Part I, pp. 33, 34.

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officers of the said Academy as they shall judge necessary or convenient; and they shall have full power and authority from time to time to determine and establish the names, number, and duties of their several officers, and the tenure or estate they shall respectively have in their offices; and also to authorize and empower their President, or some other Fellow of the Academy, at their pleasure, to administer such oaths to such officers as they shall appoint and determine, for the well-ordering and good government of the said Academy, provided the same be not repugnant to the laws of this State.

And be it further enacted by the authority aforesaid, that the Fellows of the said Academy shall have one Common Seal, which they may make use of in whatsoever cause or business shall concern the Academy, or be relative to the end and design of its institution; and shall have power and authority from time to time to break, change, and renew the Common Seal, at their pleasure; and that they may sue and be sued, in all actions, real, personal, and mixed, and prosecute and defend the same unto final judgment and execution, by the name of the President and Fellows of the American Academy of Arts and Sciences.

And be it further enacted by the authority aforesaid, that the Fellows of the said Academy may from time to time elect such persons to be Fellows thereof, as they shall judge proper, and that they shall have full power and authority from time to time to suspend, expel, or disfranchise any Fellow of the said Academy who shall by his conduct render himself unworthy of a place in that body, in the judgment of the Academy; and also to settle and establish the rules, forms, and conditions of election, suspension, expulsion, and disfranchisement.

And be it further enacted by the authority aforesaid, that the Fellows of the said Academy shall have full power and authority from time to time to make and enact such reasonable rules, orders, and bylaws, not repugnant to the laws of this State, as shall be necessary or convenient for the well-ordering and good government of the said Academy, and to annex reasonable pecuniary fines and penalties to the breach of them, not exceeding the sum of *twenty pounds*, to be sued for and recovered in any court of record within this State, in the name and for the use of the President and Fellows of the said Academy; and the same rules, orders, and bylaws to repeal at their pleasure; and also to settle and establish the times, places, and manner of convening the Fellows of the said Academy; and also to determine the number of Fellows which shall be present to constitute a meeting of the said

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Academy. *Provided*, that the Fellows of the said Academy shall meet twice in a year at the least; and that the place of their meeting shall never be more than thirty miles distant from the town of Boston.

And be it further enacted by the authority aforesaid, that the Fellows of the said Academy may, and shall forever hereafter, be deemed capable in the law, of having, holding, and taking in fee-simple, or any less estate, by gift, grant, devise or otherwise, any lands, tenements or other estate real and personal. *Provided*, that the said real estate shall not exceed in value the sum of *two hundred thousand dollars*, and the said personal estate shall not exceed in value the sum of *five hundred thousand dollars*, all the sums mentioned in the preceding section of this act to be valued in silver at the rate of *six shillings and eightpence* by the ounce. And the annual interest and income of the said real and personal estate, together with the fines and penalties aforesaid, shall be appropriated for premiums to encourage improvements and discoveries in agriculture, arts, and manufactures, or for other purposes consistent with the end and design of the institution of the said Academy as the Fellows thereof shall determine.

And be it further enacted by the authority aforesaid, that the end and design of the institution of the said Academy is, to promote and encourage the knowledge of the antiquities of America, and of the natural history of the country, and to determine the uses to which the various natural productions of the country may be applied; to promote and encourage medical discoveries; mathematical disquisitions; philosophical inquiries and experiments; astronomical, meteorological, and geographical observations; and improvements in agriculture, arts, manufactures, and commerce; and, in fine, to cultivate every art and science which may tend to advance the interest, honor, dignity, and happiness of a free, independent, and virtuous people.

And it is further enacted, that the place where the first meeting of the Fellows of the said Academy shall be held shall be the Philosophy Chamber in the University of Cambridge; and that the Honorable James Bowdoin, Esq., be, and he hereby is authorized and empowered to fix the time for holding the said meeting, and to notify the same to the Fellows of the Academy.

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Records of Meetings

October 10, 1956 — Stated Meeting

The One Thousand Three Hundred and Ninety-Second Meeting of the Academy convened in Cohen Arts Center, Tufts University, Medford, Massachusetts, on October 10, 1956, and was called to order by the Vice-President of Class II, Mr. Hoagland, at 8:15 P.M.

There were present 75 Fellows and 110 guests.

The records of the meeting of May 9 were read and approved.

The Secretary reported that the Council had approved thirteen grants-in-aid from the Permanent Science Fund totaling up to $6,973.20.

The following eight new Fellows were introduced: Bernard T. Feld (I:2), George N. Halm (III:2), Joseph M. Hayman, Jr. (II:5), Albert B. Lord (IV:3), Charles P. Lyman (II:3), Warren M. Rohsenow (I:6), Reidar F. Sognnaes (II:5), Amos N. Wilder (IV:1).

The Chair introduced Mr. Donald J. Hurley, representing the Boston Chamber of Commerce, who presented the Academy with one of the ten silver coins specially minted by the Government in commemoration of the 250th celebration of the birth of Benjamin Franklin.

The following communication was presented:

The Hunters, a documentary film, concerned with the daily life of the bushmen of the Kalahari Desert of Southern Africa, produced by the Peabody Museum Film Study Center of Harvard University. The film was preceded by introductory remarks by Mr. J. O. Brew, Director of the Peabody Museum. Both he and Mr. John K. Marshall, who directed most of the filming, answered questions in the discussion following the film.

The meeting was dissolved at 10:05 P.M.

November 14, 1956 — Stated Meeting

The One Thousand Three Hundred and Ninety-Third Meeting of the Academy convened in Cohen Arts Center, Tufts University, Medford, Massachusetts, on November 14, 1956, and was called to order by the President at 8:25 P.M.

There were present 61 Fellows and 70 guests.

President Burchard introduced Mr. Wessell, President of Tufts

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University, which has provided hospitality for the Academy's meetings on October 10 and tonight. Mr. Wessell expressed greetings on behalf of Tufts University.

The records of the meeting of October 10 were read and approved.

The Secretary reported that the Council had this afternoon appointed Mr. Herbert Bloch (IV:2) as the Academy's delegate to the American Council of Learned Societies, for a term expiring December 31, 1956, replacing Mr. Burchard.

The following four new Fellows were introduced: Marie Boas (IV:2), Oscar M. Hechter (II:1), Nicolaas Bloembergen (I:2), and Arthur K. Solomon (II:1).

The President introduced Mr. Van Vleck, Vice-President for Class I, who introduced the speakers of the evening.

The following communication was presented:

Five Years of Radio-Astronomical Research at the Twenty-One-Centimeter Wave Length.

Edward M. Purcell: *The Hydrogen Atom as a Radio Source.*

Bart J. Bok: *The Twenty-One-Centimeter Line as a Tool for Milky Way Research.*

The meeting was dissolved at 10:15 P.M.

December 12, 1956 — Stated Meeting

The One Thousand Three Hundred and Ninety-Fourth Meeting of the Academy convened at the Boston Museum of Science, Science Park, Boston, Massachusetts, on December 12, 1956, and was called to order by the Vice-President of Class III, Mr. Edwards, at 8:15 P.M.

There were present 95 Fellows and 138 guests.

The records of the meeting of November 14 were read and approved.

The following six new Fellows were introduced: Harold Eugene Edgerton (I:6), Lewis L. Engel (II:1), Antoine Marc Gaudin (I:6), Joe Vincent Meigs (II:5), Bryan Patterson (II:3), Samuel Edmund Thorne (III:4).

The Vice-President introduced Mr. Herbert Bloch (IV:2), who introduced the speaker of the evening.

The following communication was presented:

Homer A. Thompson: *The Athenian Agora: A Quarter Century of Exploration in Ancient Athens.*

The meeting was dissolved at 10:15 P.M.

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January 9, 1957 — Stated Meeting

The One Thousand Three Hundred and Ninety-Fifth Meeting of the Academy convened at the Fogg Art Museum, Harvard University, Cambridge, Massachusetts, on January 9, 1957, and was called to order by the President at 8:20 P.M.

There were present 91 Fellows and 149 guests.

The records of the meeting of December 12 were read and approved.

The following six new Fellows were introduced: Saul Gerald Cohen (I:3), Melville Eastham (I:6), Jordi Folch-Pi (II:1), Hamilton A. F. Gibb (FHM, IV:3), Edith Fishtine Helman (IV:3), Charles Peirson Lyman (II:3).

The President introduced Mr. John P. Coolidge (III:5), who introduced the speakers of the evening.

The following communication was presented:

Problems of Personality and Representation in Portraiture and Biography.

Francis H. Taylor — *Historical Problems.*

Perry T. Rathbone — *Contemporary Point of View — Abstract Art and the Individual.*

Mr. Coolidge moderated the discussion following the Communication.

The meeting was dissolved at 10:10 P.M.

February 13, 1957 — Stated Meeting

The One Thousand Three Hundred and Ninety-Sixth Meeting of the Academy convened at the Boston Museum of Science, Science Park, Boston, Massachusetts, on February 13, 1957, and was called to order by the Vice-President of Class I, Mr. Van Vleck, at 8:28 P.M.

There were present 61 Fellows and 79 guests.

The records of the meeting of January 9 were read and approved.

The Secretary announced that the Council had referred to the Committee on International Relations the presentation of the Council's resolution on Hungarian refugees. He reported that more than 100 out of approximately 125 responding to the President's letter to the Fellows on this matter were whole-heartedly in favor of general distribution of the statment and only five had serious reservations.

The Secretary reported that at the Council meeting Mr. Shapley,

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Chairman of the Permanent Science Fund Committee, announced that applications for more than $37,000 had been received for which the Fund had less than $7,000 for disbursement. It was his opinion that the Academy should have more funds to support research.

The following two new Fellows were introduced: John Englebert Dunphy (II:5) and Karl Harry Pribram (II:4).

The Vice-President introduced Mr. Fletcher Watson, Chairman of the School Science Committee, who called upon Mr. Sanborn C. Brown, Chairman of the Science Teachers Award Committee, who presented the eight Elizabeth Thompson Science Fund awards for outstanding teaching in science and mathematics in the secondary schools in New England as follows:

Glenn E. Aiken, Montpelier High School, Montpelier, Vermont
Theodore P. Emery, Gould Academy, Bethel, Maine
Helen B. Green, Weston High School, Weston, Massachusetts
Sister Mary Catherine Laboure, Girls Catholic High School, Malden, Massachusetts (in absentia)
Paul W. Legge, Maine Central Institute, Pittsfield, Maine
Edward A. Moberg, Watertown High School, Watertown, Connecticut
Douglas Sands, Wellesley Junior High School, Wellesley, Massachusetts
Elsie Scott, Northfield School for Girls, East Northfield, Massachusetts (in absentia)

The awardees each received a diploma from Mr. Van Vleck and a check for $100 from the Secretary of the Elizabeth Thompson Science Fund, Mr. John H. Welsh.

The Vice-President introduced the speaker of the evening.

The following communication was presented:

Athelstan Spilhaus: *Progress Toward the International Geophysical Year.*

The meeting was dissolved at 10:10 P.M.

March 13, 1957 — Stated Meeting

The One Thousand Three Hundred and Ninety-Seventh Meeting of the Academy convened at the Boston Museum of Science on March 13, 1957, and was called to order by President Burchard at 8:15 P.M.

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There were present 51 Fellows and 65 guests.

In the absence of the Secretary, the President called upon Mr. Whitehill to read the minutes of the meeting of February 13, which were approved as read.

The following two recently elected Fellows were introduced: Lyman H. Loomis (I:1) and Gerald Holton (I:2).

Introduced by Mr. Brown, Chairman of the Rumford Committee, Subrahmanyan Chandrasekhar, Distinguished Professor of Theoretical Astrophysics of the Yerkes Observatory of the University of Chicago, received from the President the gold and silver medals of the Rumford Premium for his work on the radiative transfer of energy in the interior of stars. As a further part of the Rumford Premium he received a check for one thousand dollars from the hand of the Treasurer, Mr. Adams, a direct descendant of the John Adams who as President of the Academy in 1796 received from Count Rumford the one thousand pounds to establish the premium.

The following communication was presented:

Subrahmanyan Chandrasekhar: *Thermal Convection.*

The President announced that the Committee on Quarters this afternoon had proposed, and the Council had unanimously approved, acceptance of an offer of a house for the Academy from the Trustees of the Brandegee Charitable Foundation: the main house on Faulkner Farm in Brookline. Members of the Committee on Quarters described the place and its possibilities, and the President urged Fellows to visit the house prior to the meeting on April 10 when the Council will present its recommendations including a budget for the operation of the house. He indicated that if they acted unfavorably on the budget they would in effect be acting unfavorably on the House. The Committee on Quarters discussed various aspects of the problem in answer to questions from the Fellows.

The meeting was dissolved at 10:30 P.M.

April 10, 1957 — Stated Meeting

The One Thousand Three Hundred and Ninety-Eighth Meeting of the Academy convened in the Oval Room of the Hotel Sheraton-Plaza on April 10, 1957, and was called to order by the President at 8:05 P.M.

There were present 70 Fellows and 36 guests.

The records of the meeting of March 13 were read and approved.

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The following communication, the valedictory address of the President, was presented:

John E. Burchard: *Imperium sine Fine.*

After the address, the President reported that the Council this afternoon had voted to stand on its vote of March 13, accepting the offer of a house, furnishings, and land for Academy headquarters from the Trustees of the Brandegee Charitable Foundation subject to successful negotiation of details. Mr. Mather moved, and Mr. Shapley seconded, that the Academy endorse the vote of the Council accepting the offer of house, furnishings, and land for Academy headquarters from the Brandegee Charitable Foundation subject to successful negotiations of details. Mr. Menzel moved, and Mr. Allis seconded, that the motion be tabled; and this was defeated by about 40 to 10. Mr. Menzel moved, and Mr. Baird seconded, that the motion be amended to require the Academy to study possibilities for even better quarters; this motion to amend was lost by a similar count. After about an hour's discussion Mr. Mather's motion was carried with about 43 yeas and 7 nays. The President reported that the replies of Fellows by mail to the question of the Brandegee offer were 26 in favor and 5 against, with 8 raising questions or cautions.

Upon recommendation of the Council it was voted to appropriate for general operating expenses for the fiscal year beginning April 1, 1957:

Appropriations for General Operations, 1957-58:

Salaries, Pensions, Annuities	$21,600	
General Administration	9,350	
House Maintenance	15,500	
Fire Insurance	150	
Temporary Quarters and Moving	1,600	
President's Expense	500	
Treasurer's Expense	600	
Investment Custodian Account	1,300	
International Relations Committee	500	
School Science Committee	350	$51,450

It was understood that these appropriations would be made from the following sources:

General Funds Investment Income	$24,321	
General Operating Receipts	13,500	
The Agassiz Fund Investment Income	14,586	$52,407
Unexpended		$ 957

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It was further voted to appropriate up to $4,000, as needed, for publication of *Dædalus* from the accumulated income of the Publication Exchange Fund.

The following amounts of new and accumulated income are estimated to be available during the fiscal year beginning April 1, 1957, for use by the committees on the restricted endowment funds:

Available in Restricted Funds, 1957-58:

Amory Fund Committee	$13,556.74	
Permanent Science Fund Committee	19,244.72	
Publication Account, General	14,970.57	
Publication, Dated Greek MSS	3,404.11	
Rumford Fund Committee	17,018.94	
Warren Fund Committee	5,369.67	$74,564.75

Upon the recommendation of the Council it was voted that the dues assessment for the fiscal year beginning April 1, 1957, shall be $15 for Resident Fellows and $5 for Non-Resident Fellows.

A suggestion from Mr. Land, that there be a committee appointed to evaluate the development of the Academy and its use of the house, was referred to the Council for consideration at its next meeting.

The meeting was dissolved at 10:40 P.M.

May 8, 1957 — Annual Meeting

The One Thousand Three Hundred and Ninety-Ninth Meeting of the Academy was convened in the Jimmy Fund Building Auditorium of the Children's Cancer Research Foundation in Boston, on May 8, 1957, and was called to order by President Burchard at 8:20 P.M.

There were present 41 Fellows and 40 guests.

The records of the meeting of April 10 were read and approved.

The Secretary reported that the Council had appointed a Committee on Planning and Development consisting of Hudson Hoagland (Chairman), J. P. Elder, Edwin H. Land, Elting E. Morison, Earl P. Stevenson, and the President, ex officio.

He reported also that the Council had designated an Executive Committee of the Council, empowered to act for the Council in the interim between Council meetings, subject to ratification by the Council at its next meeting or by mail ballot.

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He reported that the committee to arrange inaugural meetings for the new house of the Academy had planned a garden party in June and a formal reception on the 9th of October.

The Secretary read his annual report (printed below) on changes in the membership of the Academy, and the members stood to pay their respects during the reading of the names of those who had died.

The reports of the Standing Committees were placed on file, and are printed below.

Upon recommendation of the Council and Committee on Membership, it was voted to elect 103 Fellows and 16 Foreign Honorary Members, as listed below in the Report of New Members Elected.

It was voted to elect the Officers and Standing Committees as proposed by the Nominating Committee and as reported below under Officers and Committeemen Elected.

Vice-President Hoagland introduced the speaker of the evening, and the following communication was presented:

Sidney Farber: *Chemotherapy of Cancer.*

The meeting was dissolved at 9:45 P.M.

Report of the Secretary on the Status of the Membership 1956–1957

I regret to have to report the following deaths: Twenty-six Fellows and one Fellow Emeritus – LeRoy Abrams (II:2), Samuel Jackson Barnett (I:2), Norman Levi Bowen (I:5), Sevellon Ledyard Brown (III:5), Clarence Gordon Campbell (IV:2), Zechariah Chafee, Jr. (III:4), Gordon Keith Chalmers (IV:3), Bradley Moore Davis (II:2), Samuel Randall Detwiler (II:3), William Addison Dwiggins (IV:4), William Emerson (IV:4), Gordon Ferrie Hull (I:2), Witold Hurewicz (I:1), Charles Kenneth Leith (I:5), Richard Swann Lull (II:3), Robert Bayley Osgood (FE II:5), Langdon Pearse (I:6), George Washington Pierce (I:2), Henry Norris Russell (I:4), Henry Arthur Sanders (IV:3), George Walter Stewart (I:2), Lewis Madison Terman (III:1), Charles Cutler Torrey (IV:3), John von Neumann (I:1), Arthur Wisswald Weysse (II:3), Derwent Stainthorpe Whittlesey (III:1), George Bernays Wislocki (II:3). Eight Foreign Honorary Members – Arthur Lyon Bowley (III:2), Albert Jan Kluyver (II:2), G. A. Shajn (I:4), Henry Ernest Sigerist (IV:2), Sir Francis Simon (I:2), William Wright Smith

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(II:2), Frederick William Thomas (IV:3), Karl Willy Wagner (I:6).

Five Fellows have been classed as Emeriti as of May 1956: William Chase Greene (IV:3), Heinrich Schneider (IV:3), Merrill Clary Sosman (II:5), Lily Ross Taylor (IV:2), Carl TenBroeck (II:5). One Fellow has been classed as Emeritus as of May 1957: Pitirim Alexandrovich Sorokin (III:1).

Eleven Fellows have resigned: Alan Barth (III:3), Samuel Hutchison Beer (III:3), Bernard Bloch (IV:3), John Henshaw Crider (III:3), Glennon Gilboy (I:6), Columbus O'Donnell Iselin (I:5), Fritz Albert Lipmann (II:1), Robert Redfield (III:1), Alfred Tarski (I:1), Charles Frederick Voegelin (IV:3), Robert Penn Warren (IV:4).

In May, 1956, ninety-six Fellows and six Foreign Honorary Members were elected to the Academy; all except four accepted election.

The roll now includes 1146 Fellows, 62 Fellows Emeriti and 141 Foreign Honorary Members (exclusive of those elected tonight).

BRUCE H. BILLINGS, *Secretary*

New Members Elected 8 May 1957

FELLOWS

Total elected, 103

CLASS I — MATHEMATICAL AND PHYSICAL SCIENCES — 29

SECTION 1 — *Mathematics* — 4

Warren Ambrose	Massachusetts Institute of Technology, Cambridge, Mass.
Emil Artin	Princeton University, Princeton, N. J.
Kurt Gödel	Institute for Advanced Study, Princeton, N. J.
Stanislaw Marcin Ulam	Massachusetts Institute of Technology, Cambridge, Mass.

SECTION 2 — *Physics* — 7

Felix Bloch	Stanford University, Stanford, Calif.
Julian Knause Knipp	Tufts University, Medford, Mass.
Carl F. J. Overhage	Massachusetts Institute of Technology, Lincoln, Mass.
Howard Percy Robertson	California Institute of Technology, Pasadena, Calif.
Clifford Glenwood Shull	Massachusetts Institute of Technology, Cambridge, Mass.
Malcolm Woodrow Pershing Strandberg	Massachusetts Institute of Technology, Cambridge, Mass.
Charles Hard Townes	Columbia University, New York, N. Y.

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Section 3 — *Chemistry* — 5

Farrington Daniels	University of Wisconsin, Madison, Wis.
Paul John Flory	Cornell University, Ithaca, N. Y.
George Elbert Kimball	Arthur D. Little, Incorporated, Cambridge, Mass.
Arthur Earl Martell	Clark University, Worcester, Mass.
Mathew Kent Wilson	Tufts University, Medford, Mass.

Section 4 — *Astronomy* — 3

Harold Irving Ewen	Harvard College Observatory, Cambridge, Mass.
Thomas Gold	Harvard College Observatory, Cambridge, Mass.
Theodore Eugene Sterne	Harvard College Observatory, Cambridge, Mass.

Section 5 — *Earth Sciences* — 5

Jule Gregory Charney	Massachusetts Institute of Technology, Cambridge, Mass.
Robert Minard Garrels	Harvard University, Cambridge, Mass.
Marion King Hubbert	Shell Oil Company, Houston, Tex.
Walter Heinrich Munk	Scripps Institution of Oceanography, La Jolla, Calif.
Louis Byrne Slichter	University of California, Los Angeles, Calif.

Section 6 — *Engineering Sciences and Technologies* — 5

Raymond Lewis Bisplinghoff	Massachusetts Institute of Technology, Cambridge, Mass.
Arthur Robert Kantrowitz	Avco Research Laboratory, Everett, Mass.
Emanuel Ruben Piore	International Business Machines, Incorporated, New York, N. Y.
Claude Elwood Shannon	Massachusetts Institute of Technology, Cambridge, Mass.
Harold Allen Thomas, Jr.	Harvard University, Cambridge, Mass.

CLASS II — Biological Sciences — 27

Section 1 — *Biophysics and Biochemistry* — 7

Haldan Keffer Hartline	Rockefeller Institute for Medical Research, New York, N. Y.
Severo Ochoa	New York University College of Medicine, New York, N. Y.
George Emil Palade	Rockefeller Institute for Medical Research, New York, N. Y.
Alwin Max Pappenheimer, Jr.	New York University College of Medicine, New York, N. Y.
Albert Szent-Gyorgyi	Marine Biological Laboratories, Woods Hole, Mass.
James Dewey Watson	Harvard University, Cambridge, Mass.
Robley Cook Williams	University of California, Berkeley, Calif.

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Section 2 — *Botany and Bacteriology* — 3

Richard Evans Schultes	Harvard University, Cambridge, Mass.
Roger Yate Stanier	University of California, Berkeley, Calif.
Oswald Tippo	Yale University, New Haven, Conn.

Section 3 — *Zoology* — 3

Johannes Friedrich Karl Holtfreter	University of Rochester, Rochester, N. Y.
Keith Roberts Porter	Rockefeller Institute for Medical Research, New York, N. Y.
Clifford Ladd Prosser	University of Illinois, Urbana, Ill.

Section 4 — *Physiology and Experimental Psychology* — 8

Henry Stanley Bennett	University of Washington, Seattle, Wash.
Chauncey D. Leake	Ohio State University College of Medicine, Columbus, Ohio
Oliver Howe Lowry	Washington University School of Medicine, St. Louis, Mo.
Warren Sturgis McCulloch	Massachusetts Institute of Technology, Cambridge, Mass.
George Armitage Miller	Harvard University, Cambridge, Mass.
Carl Pfaffman	Brown University, Providence, R. I.
Robert Franklin Pitts	Cornell University College of Medicine, New York, N. Y.
Lorrin Andrews Riggs	Brown University, Providence, R. I.

Section 5 — *Medicine* — 6

Austin Moore Brues	Argonne National Laboratories, Lemont, Ill.
Jacob Furth	Children's Cancer Research Foundation, Harvard Medical School, Boston, Mass.
Irvine Heinly Page	Cleveland Clinic Foundation, Cleveland, Ohio
Charles Wesley Shilling	Atomic Energy Commission, Washington, D. C.
Helen Brooke Taussig	Johns Hopkins Medical School, Baltimore, Md.
Robert Wallace Wilkins	Boston University School of Medicine, Boston, Mass.

CLASS III — Social Arts and Sciences — 24

Section 1 — *Social Relations* — 3

David Clarence McClelland	Harvard University, Cambridge, Mass.
Douglas Murray McGregor	Massachusetts Institute of Technology, Cambridge, Mass.
Theodore Mead Newcomb	University of Michigan, Ann Arbor, Mich.

Section 2 — *Economics* — 4

Kenneth Ewart Boulding	University of Michigan, Ann Arbor, Mich.
John Thomas Dunlop	Harvard University, Cambridge, Mass.

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Max Franklin Millikan
Massachusetts Institute of Technology, Cambridge, Mass.
Arthur Smithies — Harvard University, Cambridge, Mass.

Section 3 — *Political Science* — 4

James MacGregor Burns — Williams College, Williamstown, Mass.
Louis Hartz — Harvard University, Cambridge, Mass.
Harold Dwight Lasswell — Yale University, New Haven, Conn.
Louise Overacker — Wellesley College, Wellesley, Mass.

Section 4 — *Law* — 4

Richard Ammi Cutter — Massachusetts Supreme Judicial Court, Boston, Mass.
Paul Abraham Freund — Harvard Law School, Cambridge, Mass.
Harrison Tweed — American Law Institute, New York, N. Y.
Earl Warren — U. S. Supreme Court, Washington, D. C.

Section 5 — *Administration and Affairs* — 9

Oscar Kelley Anderson
New England Mutual Life Insurance Company, Boston, Mass.
Marshall Bertrand Dalton
Boston Manufacturers Mutual Fire Insurance Company, Waltham, Mass.
Marion Bayard Folsom — Department of Health, Education and Welfare, U. S. Government, Washington, D. C.
Henry Townley Heald — Ford Foundation, New York, N. Y.
Barnaby Conrad Keeney — Brown University, Providence, R. I.
Clark Kerr — University of California at Berkeley, El Cerrito, Calif.
James McCormack, Jr.
Massachusetts Institute of Technology, Cambridge, Mass.
Edward R. Murrow — Columbia Broadcasting System, New York, N. Y.
Raymond Sawtell Stevens — Arthur D. Little, Incorporated, Cambridge, Mass.

CLASS IV — Humanities — 23

Section 1 — *Philosophy and Theology* — 5

George Boas — Johns Hopkins University, Baltimore, Md.
Edwin Prince Booth — Boston University, Boston, Mass.
George Arthur Buttrick — Harvard Divinity School, Cambridge, Mass.
Carl Gustav Hempel — Princeton University, Princeton, N. J.
Eric Francis MacKenzie — Diocesan Tribunal, Boston, Mass.

Section 2 — *History and Archaeology* — 5

Dexter Perkins — Cornell University, Ithaca, N. Y.
Edwin Oldfather Reischauer — Harvard University, Cambridge, Mass.
Stephen Thomas Riley — Massachusetts Historical Society, Boston, Mass.
Walt Whitman Rostow
Massachusetts Institute of Technology, Cambridge, Mass.
Homer Armstrong Thompson — Institute for Advanced Study, Princeton, N. J.

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Section 3 — *Philology and Criticism* — 7

Walter Jackson Bate	Harvard University, Cambridge, Mass.
John Vincent Kelleher	Harvard University, Cambridge, Mass.
William Nash Locke	Massachusetts Institute of Technology, Cambridge, Mass.
Henri Maurice Peyre	Yale University, New Haven, Conn.
Renato Poggioli	Harvard University, Cambridge, Mass.
Frederick Albert Pottle	Yale University, New Haven, Conn.
Perry Townsend Rathbone	Museum of Fine Arts, Boston, Mass.

Section 4 — *Fine Arts and Literature* — 6

Marian Anderson	Danbury, Conn.
Walter Dumaux Edmonds	Concord, Mass.
William Faulkner	Oxford, Miss.
Helen Hayes (Mrs. Charles MacArthur)	Nyack, N. Y.
Hugh A. Stubbins, Jr.	Boston, Mass.
George Wallace Woodworth	Harvard University, Cambridge, Mass.

FOREIGN HONORARY MEMBERS — 16

CLASS I — Mathematical and Physical Sciences — 3

Section 2 — *Physics* — 2

H. B. G. Casimir	Philipps Laboratory, Eindhoven, Netherlands
Bengt Edlén	Lund University, Lund, Sweden

Section 3 — *Chemistry* — 1

Sir Alexander Robertus Todd	Cambridge University, Cambridge, England

CLASS II — Biological Sciences — 7

Section 1 — *Biophysics and Biochemistry* — 2

Hans Adolf Krebs	University of Oxford, Oxford, England
Tadeus Reichstein	University of Basel, Basel, Switzerland

Section 2 — *Botany and Bacteriology* — 1

Albert Frey-Wyssling	Institute of Plant Physiology, Zürich, Switzerland

Section 3 — *Zoology* — 1

Konrad Zacharias Lorenz
Seewiesen Post Landstettern über Starnberg, Oberbayern, Germany

Section 4 — *Physiology and Experimental Psychology* — 2

Honor Bridget Fell	Strangeways Research Laboratory, Cambridge, England
John Zachary Young	University College, London, England

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SECTION 5 — *Medicine* — 1

Sir Harold Percival Himsworth — Medical Research Council, London, England

CLASS III — SOCIAL ARTS AND SCIENCES — 3

SECTION 1 — *Social Relations* — 1

Jean Piaget — Institut des Sciences d'Education, Geneva, Switzerland

SECTION 5 — *Administration and Affairs* — 2

Dag Hammarskjöld — United Nations, N. Y.
Lester Bowles Pearson — Secretary of State for External Affairs, Ottawa, Canada

CLASS IV — HUMANITIES — 3

SECTION 2 — *History and Archaeology* — 1

Sir Alan Henderson Gardiner — Egypt Exploration Society, Oxford, England

SECTION 4 — *Fine Arts and Literature* — 2

Alvar Aalto — Helsinki, Finland
Ralph Vaughan Williams — London, England

Officers and Committeemen Elected 8 May 1957

Officers

To serve for one year

Kirtley F. Mather, *President*
R. Bruce Lindsay, *Vice-President of Class I*
John T. Edsall, *Vice-President of Class II*
Nils Y. Wessell, *Vice-President of Class III*
W. G. Constable, *Vice-President of Class IV*
Bruce H. Billings, *Secretary*
Thomas B. Adams, *Treasurer*
Gerald J. Holton, *Editor*
Walter M. Whitehill, *Librarian*

Councillors

To serve for four years

Eric Reissner, *I:1*
Frederick V. Hunt, *I:2*
B. F. Skinner, *II:4*
Seymour E. Harris, *III:2*
J. P. Elder, *IV:3*

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Amory Prize Committee
To serve for one year

Edwin B. Wilson, *Chairman*
Bailey Aldrich
Edwin B. Astwood
J. Hartwell Harrison
Roy G. Hoskins
George W. Thorn
Shields Warren

Auditing Committee
To serve for two years

Earl P. Stevenson

Finance Committee
To serve for two years

Horace S. Ford
Henry L. Shattuck

House Committee
To serve for three years

Walter M. Whitehill, *Chairman*

Committee on Meetings
To serve for two years

Abram L. Sachar, *Class III*
Bartlett H. Hayes, *Class IV*

Committee on Membership
To serve for two years

W. Ted Martin, *Class I*
Dana L. Farnsworth, *Class II*
Louis M. Lyons, *Class III*
Lyman H. Butterfield, *Class IV*

Nominating Committee
To serve for three years

Jerrold R. Zacharias, *Class I*
Hudson Hoagland, *Class II, Chairman*
Calvert Magruder, *Class III*
Taylor Starck, *Class IV*

Permanent Science Fund Committee
To serve for three years

John M. Buchanan
Norman J. Padelford

Committee on Publication
To serve for two years

Clyde K. M. Kluckhohn, *Class III*
Edward Weeks, *Class IV*

Rumford Committee
To serve for three years

Howard O. McMahon
John C. Slater
Fred L. Whipple

Warren Committee
To serve for three years

John M. Buchanan
Norman J. Padelford

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Report of the Treasurer

Schedule A

Balance Sheet, March 31, 1957

Assets

Cash in Banks and on Hand (Schedule E)		$ 50,479.21
Investments:		
General Funds (Market Value $1,297,791.02 — Schedule D)		1,049,047.84
Prepaid Insurance Premiums		194.75
Total		$1,099,721.80

Liabilities

Funds (Schedule G):*		
General:		
Securities	$1,038,521.89	
Cash (Overdraft)	(1,101.42)	
		$1,037,420.47
Unexpended Income (Schedule E):		
Securities, and Insurance Premiums	$ 10,720.70	
Cash	51,580.63	
Total Unexpended Income		62,301.33
Total		$1,099,721.80

* Not including principal of Permanent Science Fund, see page 233.

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Schedule B

Receipts for the Fiscal Year Ended March 31, 1957*

Academy, General:			
Investment Income (Schedule D)	$53,526.57		
Less: Income to Special Funds	29,081.00		
		$24,445.57	
Franklin Anniversary Contributions		1,501.00	
School Science Contributions		1,567.50	
Assessments and Admissions Fees		10,975.00	
Overhead Credits and Misc. Income		1,500.39	$ 39,989.46
The Agassiz Fund: Investment Income			14,020.50
Mabel S. Agassiz Fund: Investment Income			130.00
Amory Fund Committee: Investment Income			3,900.00
International Optical Congress: Miscellaneous			1,463.50
Kennelly Fund: Investment Income			162.50
Monks Manuscript			1,500.00
National Science Foundation Grants:			
Committee on Acceptance of Scientific Theories		$14,250.00	
Science and Modern World View Conference		2,700.00	16,950.00
New England Courant			343.36
Permanent Science Fund:			
Boston Safe Deposit and Trust Co., Trustee			17,269.52
Publication Committee:			
Investment Income		$ 2,788.50	
Sale of Publications		1,223.75	
Lake Publications		129.31	
Praxagoras Publications		900.00	
			5,041.56
Publication Exchange Fund:			
Linda Hall Library			896.23
Rumford Fund Committee:			
Investment Income		$ 6,695.00	
Climatic Conference Publication		236.93	
Sales		7.50	6,939.43
Slavic Civilization Publications			4,637.17
Totalitarianism Publication			83.40
Special Endowment Fund: Investment Income			19.50
Warren Fund Committee: Investment Income			1,365.00
Total Receipts (Net)			$114,711.13

* Excluding sales of securities.

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Schedule C

Expenditures for the Fiscal Year Ended March 31, 1957*

Academy, General:		
Salaries and Pensions, etc.	$18,680.06	
General Administration	6,796.70	
Temporary Quarters and Moving Expense	1,729.12	
President's Expense	179.90	
Treasurer's Expense	548.81	
Investment Custodian Account	1,174.43	
Committee Appropriations:		
Publications	5,900.00	
School Science	1,805.12	
International Relations	334.46	
Franklin Anniversary	2,748.64	
		$39,897.24
Mabel S. Agassiz Fund: For Meetings		130.00
Amory Fund:		
Meetings Expense, etc.		169.72
Committee on		
Validation of Scientific Theories		1,778.96
Unity of Science		2,862.94
History of Government in Science		714.16
Acceptance of Scientific Theories		7,627.98
Science and Modern World View Conference (Net)		2,552.12
International Optical Congress		3,957.03
Monks Manuscript		1,153.81
New England Courant		505.00
Permanent Science Fund:		
Awards	$19,454.20	
Expense	1,580.67	21,034.87
Publications Committee:		
Bulletins	$ 736.11	
Daedalus	2,641.04	
Proceedings	1,367.34	
Miscellaneous	469.61	
		5,214.10
Rumford Fund Committee:		
Awards	$ 4,400.00	
Medals	850.80	
Miscellaneous	744.52	5,995.32
Slavic Civilization Publications		4,078.05
Warren Fund Committee		23.19
Total Expenditures (Net)		$97,694.49

* Excluding purchases of securities.

Schedule D, Investments, *and Schedule E,* Cash, *are not reproduced here, but are available to Fellows upon request from the Treasurer.*

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Schedule F

Summary of Operating Accounts

Account	*Balance March 31 1956*	*Investment Income*	*Other Income*	*Charges Against Income*	*Balance March 31 1957*
General	.....	$24,445.57	$15,543.89	$39,989.46	.....
Acceptance of Scientific Theories	$ 2,489.84	.....	14,250.00	7,627.98	$ 9,111.86
Am. Assoc. for Adv. of Science	175.00	.....	.....	175.00	.....
Amory Fund	5,705.46	3,900.00	.....	169.72	9,435.74
History of Government in Science	912.19	.....	.....	714.16	198.03
International Optical Congress	5,812.52	.....	1,463.50	3,957.03	3,318.99
Modern World View Conference	(53.63)*	.....	2,700.00	2,552.12	94.25
Monks Manuscript	(111.57)*	.....	1,500.00	1,153.81	234.62
New England Courant	269.34	.....	343.36	505.00	107.70
Permanent Science Fund Income Account	13,035.07	.....	17,269.52	20,859.87	9,444.72
Publications — General	6,048.42	2,788.50	7,123.75	5,214.10	10,746.57
Publications — Lake	3,274.80	.....	129.31	.....	3,404.11
Publications — Praxagoras	.....	.....	900.00	.....	900.00
Rockefeller Foundation Grant	2,862.94	.....	.....	2,862.94	.....
Rumford Fund	9,305.83	6,695.00	244.43	5,995.32	10,249.94
Slavic Civilization Publication	252.75	.....	4,637.17	4,078.05	811.87
Totalitarianism Publication	186.86	.....	83.40	.....	270.26
Validation of Scientific Theories	1,778.96	.....	.....	1,778.96	.....
Warren Fund	2,630.86	1,365.00	.....	23.19	3,972.67
	$54,575.64	$39,194.07	$66,188.33	$97,656.71	$62,301.33
		(Schedule B)			(Schedule E

*Overdrafts.

Schedule G

Funds

	Balance March 31 1956	*Investment Income*	*Other Receipts**	*Charges Against Funds*	*Balance March 31 1957*
General Funds:					
Regular	$ 49,848.38	.....	.....	.....	$ 49,848.38
Life Membership	6,000.00	.....	.....	.....	6,000.00
Current Expense	16,879.79	.....	$ 92.22	.....	16,972.01
Barbour Fund	5,000.00	.....	.....	.....	5,000.00
Library Sale Fund	288,876.91	.....	.....	.....	288,876.91
The Agassiz Fund	215,696.85	$14,020.50	.....	.....	229,717.35
Mabel S. Agassiz Fund	2,000.00	130.00	.....	$130.00	2,000.00
Amory Fund	55,479.47	.....	.....	.....	55,479.47
Appleton Fund	17,278.39	.....	.....	.....	17,278.39
Centennial Fund	25,608.77	.....	.....	.....	25,608.77
Publication Exchange Fund	15,011.45	.....	896.23	.....	15,907.68
Kennelly Fund	2,513.09	162.50	.....	.....	2,675.59
Rumford Fund	100,000.00	.....	.....	.....	100,000.00
Special Endowment Fund	294.60	19.50	.....	.....	314.10
Warren Fund	18,405.16	.....	.....	.....	18,405.16
Investment Reserve Fund	189,324.14	.....	14,012.52	.....	203,336.66
	$1,008,217.00	$14,332.50	$15,000.97	$130.00	$1,037,420.47
		(Schedule B)			(Schedule A)

*Including gains on sales of securities.

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Description of Funds

General Funds

Present Balances $49,848.38 General Fund
6,000.00 Life Membership Fund
16,972.01 Current Expense Fund

Established by various subscriptions and contributions. The income of the first two funds is available for the general purposes and maintenance of the Academy – and both principal and income of the Current Expense Fund are available if needed.

The Agassiz Fund

Proceeds from sale of Academy building at 26-28 Newbury Street in Boston, May, 1955. Present balance, $229,717.35. Unrestricted as to use of principal and income.

Mabel S. Agassiz Fund

Gift of $2,000, 1940. Income for expenses of Academy meetings.

Francis Amory Fund

Bequest, 1912. Present balance, $55,479.47. For the purpose of establishing a Septennial Prize and a gold medal to encourage the invention and discovery of measures for the relief of maladies peculiar to the bladder and the various organs connected with it. The bequest directed that public notice should be given of the nature and design of the Fund and contributions should be solicited in aid of it – also, that no award of the income be made until twenty-one years after the date of Mr. Amory's death (i.e. 1933). Four awards were made in 1940, six in 1947 and seven in 1954.

Appleton Fund

Present balance, $17,278.39. Established in 1854. The Trustees under the will of Samuel Appleton turned over to the Academy certain manufacturing stocks, of the par value of $10,000, for the purpose of constituting "a fund, the income of which is to be applied to the publication of the transactions of the said Society."

Thomas Barbour Fund

Bequest, 1947, $5,000. Unrestricted as to principal and income.

Centennial Publication Fund

Present balance, $25,608.77. Established in 1880 by gift of $1,000 from Dr. E. B. Cotting, a Fellow. Balance from subscriptions solicited by the Centennial Committee. Income is applied to publishing the transactions of the Academy.

Arthur E. Kennelly Fund

Bequest, 1939. Present balance, $2,675.59. Unrestricted as to principal and income.

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LIBRARY SALE FUND

Sale Price, $320,000. May, 1946. Proceeds for general purposes of the Academy. Present balance, $288,876.91.

PERMANENT SCIENCE FUND

Balance, March 31, 1957, $394,931.28 (market value of securities $633,525.68). Fund established in September, 1928, by agreement and declaration of trust of the Boston Safe Deposit and Trust Company, acting as Trustee. Principal of Fund is held and invested by the Trustee and the annual income paid over to the Academy, semi-annually, on request.

PERMANENT SCIENCE FUND (*Income Account*)

Balance, March 31, 1957, $9,444.72. Income of the Permanent Science Fund (above) accumulated and held apart. Available for awards for scientific research on recommendation of the Committee on the Permanent Science Fund of the Academy.

PUBLICATION EXCHANGE FUND

Balance, March 31, 1957, $15,907.68.

RUMFORD FUND

Gift of Count Rumford, 1797, $5,000 in three per cent stock of the United States. Present balance, $100,000.00. Income to be applied every second year as a premium consisting of a gold medal and a silver medal "to the author of the most important discovery or useful improvement which shall be made or published in writing during the preceding two years on heat and light."

Rulings of the Supreme Judicial Court of Massachusetts in 1832 and 1955 permit one or more awards of the premium annually and the granting of sums of money in addition to the medals. They permit the residue of the income to be used for the purchase of books, papers, philosophical apparatus, making publications or procuring lecturers, experiments and investigations, thereby carrying out the general intent and purpose of Count Rumford. The decree of 1955 permits the fund or any part thereof to be invested in such funds as are legal investments for trustees in Massachusetts.

SPECIAL ENDOWMENT FUND

Gift, 1949, $200. For future development of the Academy. Balance, March 31, 1957, $314.10.

C. M. WARREN FUND

Bequest of Cyrus M. Warren, 1891. Present balance, $18,405.16. The principal is to be held at interest and the income is to be applied toward the encouragement and advancement of research in the science or field of chemistry.

THOMAS B. ADAMS, *Treasurer*

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Report of the Amory Prize Committee

The Amory Committee met with all members present on December 12, 1956, for the annual general discussion which is customary during the first years of a new septennium. The 17 awards hitherto made were reviewed in the light of Mr. Amory's will and of the evolution of medical knowledge and practice which had taken place since the will was written in respect to the disabilities Mr. Amory sought to alleviate. The presence of Judge Aldrich as a member of the Committee was especially welcome in connection with the discussion.

It was pointed out by the Secretary, Dr. Hoskins, that Mr. Amory was apparently anxious that the prize be a large one to attract attention to the field and to make notable recognition of those who had done striking work in it; he raised the question of the Committee's practice of dividing the prize. The discussion was general and upon several facets of the problem but no decision was reached.

Local specialists who might aid the Committee in the final years of decision (1960-61) of the present septennium and a number of new suggestions of persons to be considered for the prize were also discussed.

EDWIN B. WILSON, *Chairman*

Report of the House Committee

Strictly speaking during the academic year 1956-57 the Chairman of the House Committee has nothing to report, since we have not had a house. However, it should go into the record that our executive offices continued to be housed in the Hayden Memorial Library, Room 14 S-326, at 77 Massachusetts Avenue, Cambridge 39, through the courtesy of the Massachusetts Institute of Technology. During the fiscal year 1956-57, we spent $562.22 to cover expenses in these quarters. In the same fiscal year we spent $767.15 for storage of materials at the Metropolitan Storage Warehouse, 134 Massachusetts Avenue, Cambridge. We spent $399.75 in renting space for meetings during the fiscal year ending March 31. Our total expenditures for temporary quarters were $1,729.12.

It should also go into the record that during this past year the Committee on Permanent Quarters of the Academy continued its search for a house, and in February Mr. Land of that Committee,

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in talking with Mr. McGeorge Bundy, learned of the estate of the Brandegee Charitable Foundation in Brookline. By the time of its meeting on March 13, the Committee had received from the Trustees of the Foundation an offer to the Academy to use the house together with furnishings and 20 acres of land for Academy headquarters. The offer included also financial support toward the operating and maintenance costs of the property. If after a few years' trial period it should then be mutually agreeable, the title to the property would pass to the Academy. On March 13 the Committee unanimously voted to recommend to the Council that the Academy accept tentatively the offer. The Council endorsed this on the same evening and reported it to the meeting of the Academy. The Academy meeting of the following month on April 10 endorsed the vote of the Council. Your present House Committee Chairman took office as we left 28 Newbury Street and leaves office as we are about to enter the new house on Faulkner Farm in Brookline.

The Council on April 10 approved a budget of $15,500 to cover the anticipated expenses of the use of the new house by the Academy. This is in addition to the appropriation by the trustees of the Brandegee Charitable Foundation.

The financial, geographical, and other difficulties that led the Academy to abandon its house of the first half of this century at 28 Newbury Street two years ago resulted in a search for a dream house. While there is not unanimity on the optimum dream, especially when financial realities are under consideration, it is clear that the majority of the Fellows of the Academy welcome enthusiastically the offer of the Brandegee Charitable Foundation and the opportunity it provides for exploring in real living how closely it may approximate the ideal facilities for the Academy's development in the future.

PIETRO BELLUSCHI, *Chairman.*

Report of the Permanent Science Fund Committee

The Committee met on October 2, 1956, and considered 39 applications for grants-in-aid requesting a total of $48,885.60, of which 13 for a total of up to $6,973.20 were recommended by the Committee. These 13 grants were approved by the Council on October 10, 1956, as follows:

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Grants Approved October 10, 1956

(1) To Kenneth A. Christiansen, Assistant Professor of Biology, Grinnell College, Grinnell, Iowa, for phase-contrast microscope equipment for a study of the order Collembola (Insecta), $350.

(2) To James E. Dusenberry, Assistant Professor of Pharmacognosy, University of Arkansas, Little Rock, Ark., for field travel and equipment in a pharmacognostical study of *Claviceps paspalum* with particular reference to life cycle, and alkaloid content, $500.

(3) To Darhl Lois Foreman, Assistant Professor of Biology, Western Reserve University, Cleveland, Ohio, for equipment in a study of the effects of Follicule Stimulating Hormone on the uptake of P^{32} by surviving slices of immature rat ovaries, $650.

(4) To Arthur W. Fort, Assistant Professor of Chemistry, University of Kentucky, Lexington, Ky., for materials, spectra, and analyses in the synthesis of some substituted bicyclo (3.1.0) hexenones, $500.

(5) To William G. Guindon, Assistant Professor of Physics, Boston College, Chestnut Hill 67, Mass., for supplies for a Gamma-Gamma angular correlation study, $500.

(6) To Richard F. Johnston, Instructor in Biology, New Mexico College of Agriculture and Mechanical Arts, State College, N. M., for travel and assistance in a study of the boreal and austral breeding rhythms in birds of western North America, $625.

(7) To Stanley Kirschner, Assistant Professor of Chemistry, Wayne University, Detroit 1, Mich., for a semi-micro balance for the determination of bond types, structure, number of unpaired electrons, and oxidation states of metal ions in complex inorganic compounds by magnetic susceptibility measurements, $758.20.

(8) To Rosamond McMillan, Professor of Biology, Tift College, Forsyth, Ga., for microscope equipment for a study of nuclear cytology of *Ankistrodesmus braunii* under conditions of normal and inhibited deoxyribonucleic acid synthesis, up to $750.

(9) To Bargyla Rateaver, 677 Dellwood Drive, Ann Arbor, Mich., for materials for a study to correlate variations of growth patterns in different varieties of *Manihot utilissima* with the effect on the plant of (a) fertilizers, (b) water, (c) season, (d) soil conditions, as shown by starch production per plant, hectare and chromosome number, $500.

(10) To Bernard S. Strauss, Associate Professor of Zoology, Syracuse

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University, Syracuse 10, N. Y., for a scanner and recorder for a biochemical study of morphogenesis in *Neurospora crassa*, $490.

(11) To Sister Helene Ven Horst, Head of Chemistry, Marycrest College, Davenport, Iowa, for equipment and materials for microquantitative measurements of amino acids, $550.

(12) To Sister M. Concetta Waller, Head of Chemistry, Ursuline College, 3105 Lexington Rd., Louisville 6, Ky., for equipment and supplies for a study of the effects of composition on the iodine number values and optical properties of various binary wax mixtures, $300.

(13) To Hao Wang, Reader of the Philosophy of Mathematics, Oxford University, 222 Iffley Rd., Oxford, England, for preparation of manuscripts of two essays on the philosophy of mathematics – A unifying synthesis of recent advances in foundational studies and their philosophical implications, with special emphasis on the concepts of set and computability, $500.

On March 4, 1957, the Committee reviewed 37 applications for grants totaling $36,729.85, and recommended to the Council 12 grants totaling up to $7,175 from the Permanent Science Fund. This was approved by the Council at its meeting on March 13, 1957, as follows:

Grants Approved March 13, 1957

(1) To John H. Beaman, Assistant Professor of Botany and Plant Pathology, Michigan State University, East Lansing, Mich., toward field trip expenses for a comparative study of the geographic distribution of apomictic (asexual) reproduction in seed plants, $800.

(2) To Vera Rada Dyson-Hudson, PO 262, Kampala, c/o BCMS Lotome, PO Soroti, Uganda, E. Africa, for field trip expenses in an ecological study of a primitive human population, the Karimojong of Northern Uganda, $1,725, (non-renewable).

(3) To Barry Neil Floyd, Geography Dept., Syracuse University, Syracuse 10, New York, toward field trip expenses for a study of changing patterns of African land use in Southern Rhodesia, $500, conditional on his receiving support from other sources to enable him to carry out the project.

(4) To James P. Heath, Professor of Zoology, San Jose State College, San Jose 14, Calif., for field trip expenses for dating the Chaos Jumbles, Lassen Volcanic National Park, $150.

(5) To Rupert Ivan Murrill, Assistant Professor, University of Kansas, Dyche Museum, Lawrence, Kansas, for his personal travel ex-

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penses to Europe to study remains and artifacts relating the evolution of Homo sapiens and Neanderthalensis, $500, contingent on his securing support from other sources to enable him to carry out his proposed project.

(6) To Douglas L. Oliver, Associate Professor of Anthropology, Harvard University, Cambridge 38, Mass., in support of field work by Dr. Andrew P. Vayda for a comparative study of ecology and social organization of Pacific atoll societies, $500.

(7) To Joseph R. Royce, Associate Professor of Psychology, University of Redlands, Redlands, Calif., for a study of genetic differences in the avoidance conditioning of mice, $800, contingent on his securing support from other sources to enable him to carry out his proposed project.

(8) To Gerald M. Scherba, Instructor in Biology, Chico State College, Chico, Calif., for field work expenses in a study of (1) altitudinal distribution of ant fauna of western Wyoming, and (2) population structure of the ant fauna in the Big Sagebrush community of Jackson Hole, Wyoming, $500, contingent on his securing support from other sources to enable him to carry out his proposed project.

(9) To Robert S. Schmidt, Assistant Professor of Biological Sciences, Illinois State Normal University, Normal, Illinois, for the development of an instrument for locating subterranean colonies of *Apicotermes* and related genera in a study of comparative behavior and ecology, $350.

(10) To Richard Evans Schultes, Curator, Ames Herbarium, Harvard University, Cambridge 38, Mass., for typing and preparation for publishing of an English translation of Ruiz and Pavon's *Travels in Peru and Chile*, $500.

(11) To Ricardo R. Stone, Research Assistant, Animal Science Dept., University of Arizona, Tucson, Arizona, for building a secular equation computor for kinetic studies of the cis-trans Carotene isomerization in alpha, beta, and gamma carotenes, $400, contingent on his securing support from other sources to enable him to carry out his proposed project, and contingent on a report from Tracerlab.

(12) To Karl K. Turekian, Assistant Professor of Geochemistry, Yale University, New Haven, Connecticut, for tests of trace-element variations in fossil invertebrates in relation to paleoecology, $450, contingent on his securing support from other sources to enable him to carry out his proposed project.

Since many of the applications would have been supported by the

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Committee had it had funds available, the Committee in many cases suggested other sources of funds. Five applications were forwarded to the American Philosophical Society in Philadelphia and on April 5, 1957, favorable action was taken on four of them.

The total amount of grants approved by the Committee and the Council during the year totaled $14,148.20.

HARLOW SHAPLEY, *Chairman*

Report of the Committee on Publication

Although only one number of *Dædalus* (Volume 86, Number 2) has appeared since my last report, parts of two other volumes of *Proceedings* (Volume 84, Number 2, and Volume 85, Number 2) have been printed and distributed during the year, as well as Dr. John P. Monks's book *College Men at War* (issued as vol. 24 of the *Memoirs*) and Francis Dvornik's *The Slavs, Their Early History and Civilization,* published in cooperation with the Department of Slavic Languages and Literatures at Harvard University.

Volume 84 of the *Proceedings* had been reserved for Professor P. W. Bridgman's studies in high pressures, which are generously subsidized by the Rumford Committee. The concluding papers in his series, "Effects of Pressure on Binary Alloys, Parts V-VI," were published in April 1957 as Volume 84, Number 2, but the volume has been kept open for the possible future printing of any previous commitments that are considered too technical for *Dædalus.*

Volume 85, Number 2, containing a list of Fellows as of 1 January 1956, appeared soon after the annual meeting in May, and Number 3, which will contain the list of Fellows as of 1 January 1957 with the Officers and Committees for 1957-58, is now in press.

A third issue of *Dædalus* (Volume 86, Number 3) which was planned for April publication, was delayed in order to include President Burchard's valedictory "Imperium Sine Fine," delivered on 10 April 1957. This number, which concludes the first volume of *Dædalus,* contains Terence Millin's Amory Lecture, the record of the Franklin celebrations, and addresses delivered outside Academy meetings by our Fellows Judge Medina and Chiang Yee. The fourth issue (Volume 86, Number 4), containing among other things the 1957 Rumford Medal Lecture and an expansion of Francis Henry Taylor's paper delivered at the January 1957 meeting, is now in press and should be distributed early in the summer. The fact that

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this fourth issue is in progress will give my successor as Editor an opportunity to plot his future course without undue haste and pressure.

As *Dædalus* has been an experiment for which I have been largely responsible, it seems desirable to set down certain comments upon the experience of the first volume. It has brought highly favorable comments from Non-Resident Fellows who rarely, if ever, attend meetings in Boston, but who feel that through it they have renewed contact with the Academy. Even in its present form, however, *Dædalus* requires more time than can be expected from an Editor who has to fit his work in with the academic or institutional duties that are his principal occupation. Having done considerable editorial work over the past seventeen years, I was familiar with the mechanics of producing such a journal, and so believe that I was able to carry out my duties with a minimum expenditure of time. Even so, more time was required than I could conveniently give, particularly in view of the number of hours that had to be spent each year in keeping up with the Academy's somewhat ponderous and overorganized method of doing business. In looking back over the past three years I have the impression of having spent nearly as much time listening to extended and sometimes repetitious discussions in council and committee meetings, in reading and answering lengthy memoranda as in doing editorial business. Yet an Editor cannot properly plan Academy publications without reasonably full knowledge of what is in the wind. Without the constant help and advice of Mr. Rudolph Ruzicka, a member of the Publications Committee for the past three years, it would have been entirely impossible to accomplish what has already been done to get *Dædalus* under way. Mr. Ruzicka not only contributed the design, but has spent many hours in purely mechanical tasks of seeing the first two issues through the press. The expiration of his term, according to the theory of rotation of committees under which we now operate, will necessarily weaken the Publications Committee in technical matters of book design and production, for he has no equal within or without the Academy.

Beginning with the third issue I have had the assistance on an hourly basis of Miss Isabel W. Garvey of Yarmouth Port, Massachusetts, for copy editing, proof reading and the other time-consuming aspects of editing that can and should be delegated. My successor will need the help of Miss Garvey or some similarly qualified person. He will also need some secretarial assistance to compensate for what I have

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cadged over the past three years from the Boston Athenæum without cost to the Academy.

If *Dædalus* is to appear at regular intervals, it will be necessary to solicit articles, for the papers read at the Academy's meetings do not furnish a sufficient supply. Often these papers are highly useful for *Dædalus*, but at other times they are a summary of material that is in process of publication elsewhere, or of a nature that is either too technical or too ephemeral to make desirable their publication in this journal. Of the fifteen articles in the first three issues of *Dædalus* seven were read at Academy meetings, while the remaining eight were scrounged from friends, chiefly, although not entirely within the Academy.

I believe strongly that in dealing with readers that one does not see, an institution is judged by the literacy and the typographical design of its publications. This point was clearly emphasized by Julian P. Boyd, Editor of *The Papers of Thomas Jefferson*, when he wrote on the first appearance of the new journal:

> *Dædalus* is really a first-rate performance. I thoroughly enjoyed . . . the whole tone of the journal. Other learned societies can stay in the 18th century if they want to, count their navels, plot the age-graphs of their members, and listen to long reports tending to show that, carried to the fourth decimal, it is cheaper to print proceedings in double columns than in full measure (provided you use poor paper, a cheap printer, and throw typographical experts out the window). But you have demonstrated, that a learned society can be both interesting and instructive and still live in the 20th century.

The Academy owes much to Mr. Ruzicka for his skillful design. It also owes much to Mr. E. Harold Hugo of the Meriden Gravure Company for the thought and pains that he has taken with the illustrations, for there is far more to illustrating a journal than passing indifferent copy to any printer who submits a low bid. The "Photographic Atlas of the Southern Milky Way" in Volume 86, Number 1, was achieved only by the closest collaboration between Mr. Hugo and Bart Bok in producing collotypes of outstanding accuracy and beauty. In Number 2, Mr. Hugo reproduced in offset 32 pages of Rembrandt drawings that met Jakob Rosenberg's exacting standards. These reproductions achieved, with the economy of offset, a quality that is normally to be expected only in the considerably more expensive collotype process. The Meriden Gravure Company is, in my experience, unique in its willingness to cooperate with libraries and learned insti-

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tutions in achieving the finest possible reproductions of scholarly material, with an eye fixed more firmly on the craftsman's technical accomplishment than upon the balance sheet.

The *Memoirs* of the Academy began publication in 1785 in a rather handsome large quarto format, which over the next century and a half deteriorated in appearance through inexpert typographical alterations. The page size was increased to ungainly dimensions, and the series, which through the practice of issuing thin fascicules of *Memoirs* had become a nuisance to Fellows and librarians, was discontinued in 1946. The problem of publishing Dr. Monks's book suggested the wisdom of reviving the *Memoirs* in manner similar to the practice of the American Philosophical Society, where independent books, bound in cloth, are nevertheless numbered as volumes in the Society's *Memoirs*. *College Men at War* was consequently issued as volume 24 of our *Memoirs* in a new format, designed by Mr. Fred Anthoensen of The Anthoensen Press, Portland, Maine, which recalls the pleasing appearance of the earlier volumes while taking advantage of all reasonable economies in regard to sizes of paper and press work. Mr. Anthoensen in 1941 suggested a 7 by 10 inch format of handsome but economical design for *The American Neptune: A Quarterly Journal of Maritime History*. Over the past sixteen years all kinds of ungainly copy has adapted itself gracefully and legibly to this design. His slightly larger 8 by 11 inch page for our new *Memoirs* will, I believe, prove equally versatile and attractive for all types of material. The revival of the *Memoirs* series provides a convenient means for publishing works too long for *Dædalus*, when funds are available. Lest the new Editor be overwhelmed with promising manuscripts for consideration, it should be stated clearly that subsidies from outside sources are necessary, for the funds normally at the disposal of the Publication Committee are insufficient even for *Dædalus*.

Some months ago Robert F. Erickson of Butler University, who had received several years ago a grant from the Permanent Science Fund in aid of his research upon the French Academy of Sciences expedition to South America in 1735, submitted his completed manuscript for consideration. In view of the interest of such a subject in the International Geophysical Year Mr. Adams and I are exploring possible sources of subsidies that might make it possible for us to publish this historical study as Volume 25 of the *Memoirs*.

WALTER MUIR WHITEHILL, *Editor*

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Report of the Rumford Committee

The most significant duty that the Rumford Committee performed this year was the choosing of a Rumford Medalist. The Committee unanimously recommended to the Council that the Rumford Premium Award be given to Subrahmanyan Chandrasekhar, Distinguished Professor of Theoretical Astrophysics at the Yerkes Observatory of the University of Chicago, at Williams Bay, Wisconsin. The Award was made for work on radiative transfer of energy in the interior of stars, and the Citation read: To Subrahmanyan Chandrasekhar, for extending to the cosmic realm, the stochastic laws which, on the atomic scale, govern the phenomena of heat, and for his monumental work "On the Radiative Equilibrium of a Stellar Atmosphere," in which heat is transported as light and light supports matter and matter is ultimately the source of heat itself. This was the first year in which a monetary prize ($1000) was given in conjunction with the Rumford medals.

The Committee received very few applications for Rumford grants and awarded only one: that to Dr. John A. Day, Visiting Professor of Physics, University of Redlands, Redlands, California, for $1000, for equipment and supplies for a determination of the solid-liquid interfacial energy from freezing rate data.

The Committee spent a good deal of its time trying to formulate a policy about the wise use of Rumford grant money, and in connection with this, made a detailed study of the Rumford grants which had been given from 1900 to 1956. Because of the accelerated rise of the cost of research, it is obvious from a study of this nature that although the size of the average Rumford grant has increased five fold in the last fifty years, these grants are negligible in size for physics grants today. It was the opinion of the Committee, after a considerable amount of discussion, that at a time when research money is relatively available in much larger amounts, requests for grants from the Rumford Fund should not be solicited. Instead, an attempt to maintain the value of the principal at the rate at which the country's economy is inflating, would be the wisest procedure at the present time. It appeared to us that the money which was given by Count Rumford to the Academy had a better long-time stability than the relatively available research funds in our present national prosperity and, therefore, in times of national prosperity, wisdom should dictate that we build up our principal so that when other research funds

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are not available, the Rumford Fund can again make real contributions to science as it has at times in the past. Thus, during times of depression, the Rumford Fund money can be of real service to the scientific life of the country, whereas in times of prosperity, the available funds are so limited that it would be wise to use the interest of the Fund in building up the principal.

The Rumford Model Exhibit which was constructed under the auspices of this Committee for the Rumford Bicentennial Celebration was loaned out five times during the year. During November it was on exhibit at the Westinghouse Research Laboratories in East Pittsburgh, Pennsylvania. Parts of the exhibit were the main feature in the recording of two television programs in the series " Of Science and Scientists," produced by the Lowell Institute Co-operative Broadcasting Council for the Educational Television and Radio Center of Ann Arbor, Michigan. These two television shows, which were filmed in November and December, will be released for public distribution in the Fall of 1957. Due credit to the Academy has been arranged on these programs. This Committee's Chairman gave a series of three lectures at MIT under the auspices of the Society of Arts on February 8, 9, and 10, and the Rumford Model Exhibit was the main feature of these lectures. Those models which had to do with the transmission of heat were on exhibit at the Museum of Science in connection with the celebration of the presentation of the Rumford Medal and Premium to Dr. Chandrasekhar.

SANBORN C. BROWN, *Chairman*

Report of the Cyrus M. Warren Fund Committee

The minutes of the Council for February 13, 1957, contain the following item: " A communication from Mr. Whitman, Chairman of the Warren Fund Committee was read, recommending that the ' existence of a separate committee of seven to administer this income is not justified under present conditions,' suggesting it ' could more efficiently be administered through another committee of the Academy which has more resources at its disposal, such as the Permanent Science Fund Committee,' and recommending ' that the present Warren Fund Committee be now discharged.' It was the sense of the

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Council that this should be done by arranging to have the same persons serve on both committees, and the Executive Officer was asked to follow orthodox methods to implement it."

Subsequently, the members of the Warren Fund Committee submitted their resignations and the President, by authority of the Council, appointed to the Warren Fund Committee the following members: Harlow Shapley, Chairman, Frank M. Carpenter, John F. Enders, Robley D. Evans, Jacob Fine, Patrick M. Hurley, and Fritz J. Roethlisberger. The Nominating Committee has made its nominations to the Permanent Science Fund Committee identical with its nominations to the Warren Fund Committee. Under this arrangement, the two committees can conveniently meet simultaneously.

The Warren Fund Committee was established by the Academy in 1893, by the following vote taken from the records of April 12 of that year.

"The provisional committee appointed to consider methods of managing the 'Cyrus Moors Warren Trust for the encouragement of Chemical Reasearch' respectfully recommend to the Academy that a standing committee be appointed to be known as the C. M. Warren Committee, which shall consist of seven (7) members to be chosen by ballot at the Annual Meeting of the Academy, vacancies to be filled at any stated meeting of the Academy after due notice has been given at a previous meeting of the proposed election.

"We recommend that the C. M. Warren Committee should be directed by the Academy:—

"I. To invite applications for pecuniary assistance from any persons wishing to engage in research in any department of chemistry; that the Committee should consider these applications carefully and recommend to the Academy for its favorable action such applications as seem to be practicable and to be worthy of aid. We urge that preference should be given to work upon petroleum products and hydrocarbons, because of Mr. Warren's special interest in the study of these substances.

"II. We recommend that the Committee should be authorized to suggest subjects that need to be investigated, and be directed to employ a chemist, or several chemists, at its discretion, to work out definite stated problems, under the supervision of the Committee. Preference should naturally be given to actual laboratory work, but research in the literature of chemistry, and other forms of literary labor, should

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not be excluded when in the opinion of the Committee the elucidation of a problem might be promoted by these means.

"III. The Committee should be empowered on occasion to purchase materials and apparatus – including printed or written memoirs – which may be needed for the investigations which may be recommended, and should be permitted to employ assistants when necessary.

"IV. We are of opinion that no medal or other form of prize should be given or offered by the Academy in connection with the Warren Trust.

"All of which is respectfully submitted by

F. H. Storer A. M. Comey
C. L. Jackson L. P. Kinnicutt

" The report was accepted and adopted by the Academy."

I have been informed by the Treasurer that the balance of the Warren Fund as of March 31, 1957, is $3,972.67 which is available for grants-in-aid of research.

HARLOW SHAPLEY, *Chairman*

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